



University of New Haven

Academic Outcomes

Student Learning Outcomes

Accounting (B.S.)

1. Demonstrate knowledge of fundamental business concepts in functional areas
2. Effectively solve business problems using appropriate quantitative and analytical techniques
3. Develop and demonstrate understandings of the use of various software for use in analysis (e.g. Excel and other components of Microsoft Office)
4. Demonstrate an ability to assess the impact of the interaction of functional areas and external environments on an organization
5. Demonstrate an understanding of how businesses function in the global marketplace
6. Develop an understanding of global diversity and how differences among cultures affect business practices and decision-making
7. Demonstrate an understanding of social responsibility and its effect on stakeholders
8. Demonstrate the ability to apply variety of ethical principles within the business environment
9. Effectively create well written documents related to business topics
10. Prepare and deliver an effective oral presentation on a business topic
11. Demonstrate effective team skills
12. Participate in the Professional Enrichment Program according to current directives that require attendance at sixteen sessions over the term of the Bachelor's degree

Art (B.A.)

1. Effectively present and write about artwork and other's artistic concepts utilizing vocabulary related to the field of fine art
2. Demonstrate proficiency in the primary media of 2D and 3D art making (drawing, painting, sculpture)

	<ol style="list-style-type: none"> 3. Possess historical understanding of major movements, theories, and origins of art and art making 4. Exhibit understanding of museum studies fundamentals 5. Create portfolio of work demonstrating skills in the field of graphic design
<p style="text-align: center;">Biology (B.S.)</p>	<ol style="list-style-type: none"> 1. Gain knowledge base of biological principles and issues to effectively apply knowledge in biology, and an understanding of the connections within various areas of biology 2. Perform laboratory and/or field techniques that are typically used in the biological sciences 3. Use computers effectively for analyzing biological data and presenting results of experiments and reports 4. Prepare scientific reports, and communicate scientific findings through oral reports and discussion 5. Conduct electronic searches of scientific literature and have knowledge of internet sources of scientific information and how to assess the quality and accuracy of such sources 6. Read, comprehend and assess scientific publications
<p style="text-align: center;">Biotechnology (B.S.)</p>	<ol style="list-style-type: none"> 1. Develop a solid framework of knowledge and skills within the field of biotechnology 2. Employ various technologies and scientific methods for addressing problems in biotechnology; proficiency in laboratory techniques essential to biotechnology 3. Write effectively and develop and give oral presentations 4. Critically analyze interdisciplinary environmental problems 5. Utilize scientific information databases and understand and assess scientific literature
<p style="text-align: center;">Business Administration (M.B.A)</p>	<ol style="list-style-type: none"> 1. Demonstrate facility with functional areas of business 2. Apply knowledge from 1.1 toward analysis and recommendations for action in a business situation and recommend alternative courses of action and recognize their consequences 3. Understand the process of integrating analysis, creativity and reasoning in arriving at judgments that reflect real-world functionality and strategy within the firm

Business Management (B.S.)

4. Develop appreciation and understanding of other cultures
5. Demonstrate ability to analyze the ethical and social ramifications of business decisions
6. Be knowledgeable about tools that can be used to make for-profit/nonprofit organizations more ethical and socially responsible in the process of developing and applying organizational strategies
7. Demonstrate capabilities to effectively lead and follow within group environments

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1. Demonstrate the ability to apply concepts in basic science and mathematics and have a working knowledge of advanced chemistry
2. Demonstrate the ability to design and conduct experiments, analyze, data, assess results, and make recommendations regarding work outcomes

Chemical Engineering (B.S.)

3. Demonstrate proficiency in the use of computer tools typical of those used in the process industries for research, development, design, and operation activities
4. Demonstrate the ability to function as integral members of multidisciplinary teams
5. Become aware that solutions to technical problems have wide-ranging effects on society and can demonstrate the ability to incorporate consideration of such effects into solutions
6. Demonstrate the ability to effectively communicate technical ideas to a variety of audiences
7. Demonstrate the ability to develop solutions to open-ended problems that achieve balance among competing constraints
8. Demonstrate the ability to apply an engineering approach to the solutions of problems
9. Demonstrate the ability to think creatively and to extend their knowledge through independent learning
10. Demonstrate the ability to apply the concepts of balances, rate, and equilibrium relationships and of process/product/equipment analysis and design

Chemistry (B.S.)

1. Effectively apply chemical theory and knowledge to the study of chemical systems
2. Design and safely conduct experiments utilizing modern techniques and instrumentation and to analyze and evaluate experimental results
3. Effectively communicate both knowledge of chemistry and experimental results orally and in written
4. Effectively utilize the print and online chemical literature for information retrieval
5. Anticipate, recognize, and evaluate the hazards associated with chemical experimentation

Civil Engineering (B.S.)

1. Demonstrate the ability to solve civil engineering problems by applying fundamental knowledge of mathematical, computational, scientific and engineering concepts
2. Demonstrate the ability to design, conduct, experiments, and to collect, analyze, and interpret data
3. Demonstrate the ability to identify, formulate, and solve civil engineering problems

	<ol style="list-style-type: none"> 4. Demonstrate the ability to use appropriate techniques, skills, and modern engineering tools necessary for civil engineering practice 5. Demonstrate the ability to plan, design, construct, and operate a system, component, or process that satisfies performance, cost, time, safety, quality, and environmental constraints 6. Demonstrate the ability to function and communicate effectively both at the individual level as well as within multi-disciplinary team settings 7. Have the broad-based education necessary to understand the impact of civil engineering solutions in a global, societal, and environmental context
<p style="text-align: center;">Communication (B.A.)</p>	<ol style="list-style-type: none"> 1. Demonstrate specific interpersonal and applied communication skills in human communication theory; convergent media production aesthetics, theory and technical areas; media writing and journalism 2. Successfully become effective team members in newsroom, news websites and public relations firms and offices 3. Successfully complete increasingly complex aesthetic and skill based projects in print and convergent journalism and strategic communication 4. Successfully use industry based software and create real applied solution to increasingly complex real and case study problems
<p style="text-align: center;">Communication (B.S.)</p>	<ol style="list-style-type: none"> 1. Demonstrate specific interpersonal and applied communication skills in human communication theory; convergent media production aesthetics, theory and technical areas; media writing and journalism 2. Experience working professionally and develop professional contacts and references in a chosen area; have the ability to be effective team members 3. Successfully complete increasingly complex aesthetic and skill based projects in film and video production
<p style="text-align: center;">Community Psychology (M.A.)</p>	<ol style="list-style-type: none"> 1. Successfully conduct applied social research relevant to community psychology 2. Successfully apply major theoretical concepts in the core community psychology curriculum and their concentration area 3. Demonstrate, at a professional level, applied intervention skills in an internship setting relevant to their concentration

Computer Science (A.S.)

1. Demonstrate a beginning knowledge and understanding of computer hardware: digital circuits, basic computer architecture, instruction sets, networking devices and protocols
2. Demonstrate knowledge and understanding of computer software at a beginning level: syntax, usage, logic, computation, algorithms
3. Demonstrate a beginning knowledge and understanding of computer theory, including complexity and Boolean logic to design and use a database with multiple tables
4. Demonstrate the ability to design, implement, and document a program for a simple application

Computer Science (B.S.)

1. Demonstrate understanding of a solid body of knowledge of computer hardware, as defined by the Association for Computing Machinery (ACM) curriculum guidelines: digital circuits, basic computer architecture, instruction sets, networking devices and protocols
2. Write and debug a program of moderate complexity; design and use a data base with multiple tables
3. Demonstrate understanding of logic, Boolean algebra, elementary complicity theory, algorithms, syntax specification, types, parsing, and compilation
4. Name the major subsystems of an operating system and explain how scheduling resource allocation, and file storage are managed; use a command shell, make systems calls and write a concurrent program
5. Communicate effectively with clients and peers, in writing, orally, and graphically written material is clear, well organized, neat, grammatical, and spelled correctly. Presentations are clear, well organized, and presented in a manner appropriate for the audience.
6. Develop a complex program for a given application, to meet professional standards
7. Explain the choices and trade-offs involved in doing business: ethical, financial, environmental, personal, and social

Computer Science (M.S.)

1. Develop a large software project, one that is well designed, complete, functions properly, and is presented appropriately
2. Understand one aspect of modern computer systems in greater depth: networks, operating systems, parallel architectures or databases
3. Mastered the methods and algorithms of one area of computer theory

	<ol style="list-style-type: none"> 4. Demonstrate the ability to work independently 5. Explain the current developments and concerns related to at least two subareas of computer science
<p style="text-align: center;">Criminal Justice (A.S.)</p>	<ol style="list-style-type: none"> 1. Successfully identify core components of the CJ system: police, corrections, and courts 2. Effectively communicate criminal justice concepts orally and/or in writing
<p style="text-align: center;">Criminal Justice (B.S.)</p>	<ol style="list-style-type: none"> 1. Successfully identify core components of the CJ system: police, corrections, and courts 2. Successfully apply core concepts and theories of criminal justice 3. Analyze a criminal justice problem or question 4. Communicate criminal justice concepts orally and in writing 5. Perform in a professional environment; evaluate ethical and moral issues in a professional/disciplinary setting, work as team members, demonstrate competence in use of technology and computing skills
<p style="text-align: center;">Criminal Justice (M.S.)</p>	<ol style="list-style-type: none"> 1. Synthesize theories as they relate to the criminal justice system 2. Analyze components and/or problems of the criminal justice system 3. Communicate criminal justice concepts orally and/or in writing
<p style="text-align: center;">Criminal Justice (P.H.D.)</p>	<ol style="list-style-type: none"> 1. Produce original works of scholarship 2. Articulate original empirical research 3. Effectively contribute to the knowledge base in criminal justice and related fields
	<ol style="list-style-type: none"> 1. Demonstrate the ability to determine patient needs and oral health concerns through systematic collections and analysis of medical and dental data 2. Successfully Facilitate optimal oral health through the establishment of realistic goals and treatment strategies

Dental Hygiene (A.S.)

3. Ensure that quality treatment is provided through the development of the assessment and planning phase
4. Successfully assess achievement of goals through the use of indices and re-evaluation
5. Utilize appropriate life support measures in response to medical emergency situations that may be encounter in dental hygiene practice
6. Demonstrate the ability to includes ethical, legal and regulatory concepts to the provision and/or support of oral health services
7. Successfully implements self-assessment skills to establish life-long learning
8. Evaluate current scientific literature
9. Demonstrate the ability to use problem solving strategies related to comprehensive patient care and management of patients

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1. Successfully leave visible and legible traces or records of interaction of hand, eye, and mind that demonstrate understanding and successful application of the tools, methods, and materials of drawing
2. Select and describe important visual information and manifests position, topography and illumination of a subject in an appropriate fashion

Drawing (B.F.A.)

3. Successfully brings the flux of appearances under control and demonstrate a clear definitive stand on visualizing and communicating the subject
4. Successfully analyze one owns work as well as other artists' works (peers and professionals), identifying qualities that distinguish one's own work from others'
5. Demonstrate and develop an independent style and direction in drawing that synthesizes support from experience in foundation components of design, the tools, methods, and materials of drawing
6. Successfully create drawings that build upon and employ ideas explored in art historical, contemporary practices, and cultural, personal and/or other academic areas of inquiry

Economics (B.A.)

1. Effectively organize thoughts in a way that can be communicated clearly to others
2. Separate a complex problem into its components
3. Appeal general principles to specific cases
4. Discern cause and effect and the difficulties involved
5. Negotiate tradeoffs between competing values
6. Distinguish causation from correlation and coincidence

Education (M.S.)

1. Understand theories of learning, the characteristics of different learners, both typical and atypical, that influence learning, and the pedagogical principles that support learning
2. Understand the research base that guides effective practice; they use the research base to inform their choices and actions.
3. Successfully develop a repertoire of instructional strategies in and from practice
4. Demonstrate the ability to refine and deepen pedagogical content knowledge
5. Demonstrate the ability to accept responsibility for guiding all learners to attain high achievement standards
6. Demonstrate the ability to be prepared with the technological skills for learning and leading the next generation of children into the future

Electrical Engineering (B.S.)

1. Demonstrate the ability to apply knowledge of mathematics, science, and engineering
2. Demonstrate the ability to design and conduct experiments, as well as to analyze and interpret data
3. Demonstrate the ability to design a system, component, or process to meet desired needs within realistic constraints
4. Demonstrate the ability to work effectively in a team to accomplish assigned tasks and objectives
5. Demonstrate the ability to identify, formulate, and solve engineering problems
6. Demonstrate an understanding of professional and ethical responsibility
7. Demonstrate the ability to communicate effectively
8. Successfully obtain the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
9. Successfully recognize the need for, and an ability to engage in life-long learning
10. Knowledge of contemporary issues
11. Demonstrate the ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Emergency Management (M.S.)

1. Successfully research an emergency management topic and present findings in a concise and clear document
2. Describe the effects of social and cultural issues on emergency planning and the special types of emergency planning that might be needed to address same
3. Describe the various FEMA disaster programs, what their components are and what areas of disaster recovery they are applicable to; describe the Hazard Mitigation grant program
4. Discuss ethical issues related to emergency management such as: evacuation planning, emergency response, and emergency recovery actions
5. Identify and use new and emerging technologies to improve emergency management capabilities
6. Describe how non-government and private sector entities need to become partners in public sector emergency planning

	<ol style="list-style-type: none"> 7. Demonstrate using a FEMA model plan to develop a local emergency operation plan; describe the difference between annexes and emergency support functions
<p style="text-align: center;">English Literature (B.A.)</p>	<ol style="list-style-type: none"> 1. Demonstrate knowledge of literary form, genre, and history 2. Successfully interpret literary texts 3. Successfully critique texts, movements, and theories related to literature 4. Successfully perform sophisticated research and integrate it in critical writing
<p style="text-align: center;">English Writing (B.A.)</p>	<ol style="list-style-type: none"> 1. Successfully identify elements of genre, rhetoric, form, and narrative technique 2. Successfully critique the writing of peers and make specific recommendations for revision 3. Produce professional-level writing appropriate for its genre or context 4. Articulate an awareness of the elements of the writing profession
<p style="text-align: center;">Environmental Engineering (M.S.)</p>	<ol style="list-style-type: none"> 1. Have an extensive knowledge in fundamental environmental engineering science, the interactions of pollutants in water, air, and subsurface environments, and the design of treatment/pollutant remediation systems 2. Recognize, value and apply the legal and regulatory aspects of environmental engineering practice 3. Demonstrate the ability to function effectively in interdisciplinary teams 4. Demonstrate the ability to communicate effectively ideas on a variety of technical as well as non-technical issues
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Finance (B.S.)

4. Demonstrate an ability to assess the impact of the interaction of functional areas and external environments on an organization
5. Demonstrate an understanding of how businesses function in the global marketplace
6. Develop an understanding of global diversity and how differences among cultures affect business practices and decision-making
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Fire Occupational Safety (A.S.)

1. Use basic concepts of occupational health and safety (such as risk identification, accident investigation, and evaluation and control procedures for emergency organizations) in order to establish a fire and occupational safety program
2. Effectively communicate in writing the findings and submit for evaluations approval and implementation

Fire Protection Engineering (B.S.)

1. Apply knowledge of mathematics, science, and engineering
2. Design and conduct experiments, as well as interpret data
3. Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
4. Function on multidisciplinary teams
5. Identify, formulate, and solve engineering problems
6. Explain professional and ethical responsibilities
7. Communicate effectively, both written and orally
8. Discern the impact of engineering solutions in a global, economic, environmental, and societal context

9. Recognize the need for, and an ability to engage in life-long learning
10. Know contemporary issues
11. Use techniques, skills, and modern engineering tools necessary for engineering practice
12. Apply the science of fire dynamics to protect life safety of occupants, emergency responders, and property
13. Identify and evaluate hazards and risks associated with processes and building designs
14. Design fire protection products, systems, and equipment
15. Predict human response and behavior in fire emergencies
16. Evaluate fire prevention strategies and methods of fire control and extinguishment
17. Develop fire prevention plans, methods of control and extinguishment

Fire Science- Administration (B.S.)

1. Analyze and manage multi-hazard emergency conditions, and make appropriate strategic, tactical and task decisions to mitigate the incident
2. Establish an incident command system at an emergency in accordance with national standards
3. Identify causes of fires within the community and establish appropriate fire prevention strategies
4. Understand the role of a fire officer within the local government and can apply knowledge of leadership, organizational issues, regulations and standards to ensure organizational effectiveness in the administration of a fire fighting company, battalion or department
5. Make strategic and tactical decisions relating to management of a fire service organization in the areas of budgeting, project management, contract negotiations, discipline and conflict resolution

Fire Science- Administration (M.S.)

1. Develop an operating and capital budget using the appropriate budget format
2. Understand the history and development of the labor movement and its impact on the administration of a public agency
3. Understand the public policy decision making process
4. Apply knowledge of leadership and management principles in the administration of a fire department
5. Describe the process of developing a strategic plan for a fire department

Fire Science- Arson Investigation (B.S.)

1. Use the scientific method to determine the origin and cause of a fire; evaluate fire load, fire development and burn patterns to determine the intensity and progression of the fire and the impact of fire code deficiencies
2. Effectively communicate in writing the findings and submit for evaluation, approval, and implementation
3. Determine if a fire was accidental, natural, incendiary in nature or must be considered undetermined; work with outside agencies to establish party, item or circumstances responsible for ignition scenario
4. Identify hazardous materials or other safety hazards and the appropriate course of mitigation necessary to render a fire scene reasonably safe to investigate

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Fire Science- Public Safety Management (M.S.)

1. Research a topic and develop and present findings in a concise and clear document
2. Practice basic management skills such as negotiating contracts, working higher level officials and personnel conduct that is expected of a fire service professional
3. Read, understand and apply standards that apply to the profession of fire service protection

Fire Science- Technology (B.S.)

1. Demonstrate that knowledge accumulated in the applied and fire science course can be successfully used to design simple (water based) fire suppression systems
2. Interpret effectively and concurrently the state fire and building codes in order to select the proper fire suppression system based on building occupancy; effectively communicate in writing the findings; provide code based justification for solutions

	<ol style="list-style-type: none"> 3. Apply the skills acquired in engineering courses to find solutions and solve problems within budgetary and time constraints using project management software
<p style="text-align: center;">Forensic Science (B.S.)</p>	<ol style="list-style-type: none"> 1. Successfully apply basic scientific principles to address problems encountered by forensic scientists 2. Demonstrate the ability to successfully carry out a wide variety of forensic laboratory examinations and understand the range and limitations of these techniques 3. Demonstrate the ability to perform forensic science analysis or related research in real life situations 4. Demonstrate an understanding of legal procedures, rules of evidence, ethical and professional duties and responsibilities of the forensic scientist
<p style="text-align: center;">Forensic Science (M.S.)</p>	<ol style="list-style-type: none"> 1. Demonstrate proficiency in the proper use of various instruments, equipment, or technical procedures 2. Successfully recognize and identify common forms of physical and pattern evidence, and properly interpret related examinations of this evidence 3. Describe major ethical and professional guidelines and principles
<p style="text-align: center;">Forensic Technology (M.S.)</p>	<ol style="list-style-type: none"> 1. Successfully determine and integrate the application of the basic principles of the natural sciences to the examination and analysis of forensic evidence 2. Effectively distinguish and compare common forms of physical and pattern evidence, and can properly interpret related examinations of this evidence 3. Discriminate major ethical and professional guidelines, principles, and standards. They can also generate appropriate responses to ethically challenging situations 4. Effectively apply forensic evidence analysis and interpretations in the legal setting and produce and critique written and verbal expert testimony
<p style="text-align: center;">Global Studies (B.A.)</p>	<ol style="list-style-type: none"> 1. Recognize distinctions among the major cultural systems of the globe 2. Describe the interconnectedness of the world's political, economic, or social systems 3. Appraise trans-national issues from multiple perspectives 4. Communicate at a basic level in a foreign language

Graphic Design (B.A.)

1. Effectively present and write about designs and other's design concepts utilizing vocabulary related to the field of graphic design
2. Demonstrate proficiency in the primary applications used in the field of graphic design (e.g. Adobe Illustrator, InDesign, and Photoshop)
3. Design effective visual communications associated with the field of graphic design (e.g. print advertisement layouts, logo designs, et al.)
4. Create a portfolio of work demonstrating skills in the field of graphic design

Healthcare (M.S.)

1. Demonstrate competence of all 5 core domains of health care administration
2. Apply knowledge of the 5 core domains of health care administration to a capstone project
3. Demonstrate competence in communication and relationship management including written and oral communication, teamwork, and relationship building
4. Demonstrate competence in health care leadership including managing change and demonstrating leadership behavior and skills in the classroom
5. Demonstrate competence in professionalism including personal and professional accountability, professional ethics, and relationships with the community
6. Demonstrate competence in and knowledge of the healthcare environment including the policy environment, organizational environment, personnel and client perspectives
7. Demonstrate and apply management knowledge and skills to health care industry scenarios

History (B.A.)

1. Analyze the interplay amongst such factors as politics, religion, race and economics on the effect of the development of civilizations
2. Develop an historical narrative and construct a critical historical argument using primary and secondary sources
3. Synthesize historical data into a compelling interpretive argument

Hospitality & Tourism Management (B.S.)

1. Successfully apply general business and hospitality knowledge to problem-solving and strategic planning in daily business operation and growth
2. Communicate effectively, both orally and in writing, with key stakeholders including customers, employees, and upper management reflecting cultural sensitivity, professional, ethics, and social responsibility

	<ol style="list-style-type: none"> 3. Demonstrate solid organization, leadership, and team skills, making significant contributions to the successful management and operations of a hospitality organization
<p style="text-align: center;">Human Nutrition (M.S.)</p>	<ol style="list-style-type: none"> 1. Successfully resolve complex nutritional issues 2. Design and implement nutritional counseling approaches to meet the needs of individuals 3. Apply ethical decisions in the delivery of nutritional counseling 4. Practice teamwork skills in diverse group settings, including critical thinking and analytical reasoning as part of a health care team
<p style="text-align: center;">Illustration (B.F.A.)</p>	<ol style="list-style-type: none"> 1. Demonstrate knowledge and mastery of the tools, technology, methods, and materials of illustration 2. Apply formal conventions of illustration, including the elements and conventions of design (space, form, line, etc.) and color theory 3. Analyze one owns work as well as other illustrators' works (peers and professionals), identifying qualities that distinguish one's own work from others' 4. Demonstrate and develop an independent style and direction in illustration that synthesizes support from experience in foundation components of design, the tools, methods, and materials of painting 5. Develop narrative approaches that are appropriate to subject matter and exhibit the individual hand and voice of the student artist 6. Create illustrations and stories that build upon and employ ideas explored in art historical, contemporary practices, and cultural, personal and/or other academic areas of inquiry
<p style="text-align: center;">Industrial/ Organizational Psychology (M.A.)</p>	<ol style="list-style-type: none"> 1. Master theory and techniques related to core areas of industrial-organizational psychology including employee selection, work motivation, performance appraisal, training, attitude assessment, employee testing, industrial relations, organizational theory and group behavior 2. Learn how to employ the knowledge gained through classes to the workplace through academic advising and experiential learning opportunities such as internships, practicum, case studies and applied research projects

	<ol style="list-style-type: none"> 3. Learn psychological research methods and statistical methods to perform appropriate analyses for applied research projects in work organizations and be critical consumers of studies utilized to make business decisions
<p style="text-align: center;">Information Technology network security (B.S.)</p>	<ol style="list-style-type: none"> 1. Understand and explain current technical concepts and practices in the core information technologies; identify the (internal) parts of a computer and a network, describe the function of each, and explain how they interact; name the major subsystems of an operating system and explain how scheduling, resource allocation, and file storage are managed 2. Successfully write and debug a program; design and use a data base with multiple tables 3. Successfully design and build effective and usable IT-based solutions; project is complete, works, and is documented and presented clearly 4. Identify legal and ethical issues involving uses of computer technology and analyze possible courses of action
<p style="text-align: center;">Interior Design (B.A.)</p>	<ol style="list-style-type: none"> 1. Proficiently utilize the design process and knowledge of design industry standards to research, create, evaluate, present and justify the design solutions within a team based and/or client based program 2. Demonstrate proficiency in effective hand and technology based visual and business communication forms as well as oral and written communication 3. Utilize building industry standards, codes, regulations and green/sustainable design practices in the design and specification of interior spaces, finishes and products 4. Distinguish, select and evaluate design criteria and design context within the historical, cultural, and political constructs of the local, regional or global community
<p style="text-align: center;">Investigation (M.S.)</p>	<ol style="list-style-type: none"> 1. Use the scientific method to determine the origin and cause of a fire evaluate fire load, fire development and burn patterns to determine the intensity and progression of the fire and impact of fire code deficiencies 2. Effectively communicate in writing their findings and have them submitted for evaluation, approval, and implementation 3. Determine if a fire was accidental, natural, incendiary in nature or must be considered undetermined; work with outside agencies to establish party, item, or circumstances responsible for ignition scenario 4. Identify hazardous materials or other safety hazards and the appropriate course of mitigation necessary to render a fire scene reasonably safe to investigate

Labor Relations (M.A.)

1. Apply knowledge of the literature and schools of thought in the discipline of public administration as well as the areas of organization theory, human resources, and collective bargaining
2. Understand all aspects of public policy related to human resources and collective bargaining, particularly at the local level
3. Design, execute, analyze, and interpret social science research
4. To complete the above, students must have a grasp of social science statistics and SPSS, as the tool of analysis
5. Apply professional and ethical standards to their service

Legal Studies (B.S.)

1. Demonstrate understanding of the structure and functions of the American legal system, including governmental structure, the court system and alternative methods of dispute resolution, and recognition of the role of law and democratic principles in our society
2. Demonstrate knowledge of basic legal principles and core substantive and procedural laws
3. Properly apply professional rules of conduct to act in ethical and professional manner in their work
4. Conduct literature-based and legal research using library materials as well as computer assisted research programs to produce reports and memoranda
5. Perform factual investigations, including accessing documentary information and materials and interviewing clients and witnesses

Management of Sports Industries (B.S.)

1. Demonstrate knowledge of fundamental business concepts in functional areas
2. Effectively solve business problems using appropriate quantitative and analytical techniques
3. Develop and demonstrate understandings of the use of various software for use in analysis (e.g. Excel and other components of Microsoft Office)
4. Demonstrate an ability to assess the impact of the interaction of functional areas and external environments on an organization
5. Demonstrate an understanding of how businesses function in the global marketplace
6. Develop an understanding of global diversity and how differences among cultures affect business practices and decision-making
7. Demonstrate an understanding of social responsibility and its effect on stakeholders

8. Demonstrate the ability to apply variety of ethical principles within the business environment
9. Effectively create well written documents related to business topics
10. Prepare and deliver an effective oral presentation on a business topic
11. Demonstrate effective team skills
12. Participate in the Professional Enrichment Program according to current directives that require attendance at sixteen sessions over the term of the Bachelor's degree

Management of Sports Industries (M.S.)

1. Demonstrate familiarity with accounting, economics, marketing, and management
2. Successfully analyze data and recommend a strategic course of action that reflect real-world functionality and strategy within the sports organization
3. Successfully describe the various legal theories faced as sport administrators
4. Demonstrate an ability to apply legal theories to real world problems from identifying applicable legal standards through compliance with organizational regulations and/or industry standards
5. Demonstrate an ability to draft a comprehensive sport contract
6. Demonstrate an ability to analyze the ethical and social ramifications of running a sport program
7. Become knowledgeable about tools that can be used to effectively market a sport business/organization
8. Demonstrate an ability to effectively run sport events/organizations
9. Demonstrate an ability to work in the sport industry and successfully work with current industry professionals
10. Demonstrate an understanding of basic sport finance terms, ratios, and the budgetary processes
11. Successfully make decisions based on analyzing financial data and then implement those decisions

Marine Biology (B.S.)

1. Effectively apply knowledge about marine & estuarine organisms and marine, estuarine, & coastal systems
2. Design & implement appropriate experiments and analyze their results
3. Identify & communicate the necessary key components of effective short-term & long-term strategies for management of marine organisms and systems

	<ol style="list-style-type: none"> 4. Effectively function as part of a team & communicate clearly as a team leader 5. Read current peer-reviewed literature and evaluate it for its scientific content
<p style="text-align: center;">Marketing (B.S.)</p>	<ol style="list-style-type: none"> 1. Demonstrate knowledge of fundamental business concepts in functional areas 2. Effectively solve business problems using appropriate quantitative and analytical techniques 3. Develop and demonstrate understandings of the use of various software for use in analysis (e.g. Excel and other components of Microsoft Office 4. Demonstrate an ability to assess the impact of the interaction of functional areas and external environments on an organization 5. Demonstrate an understanding of how businesses function in the global marketplace 6. Develop an understanding of global diversity and how differences among cultures affect business practices and decision-making 7. Demonstrate an understanding of social responsibility and its effect on stakeholders 8. Demonstrate the ability to apply variety of ethical principles within the business environment 9. Effectively create well written documents related to business topics 10. Prepare and deliver an effective oral presentation on a business topic 11. Demonstrate effective team skills 12. Participate in the Professional Enrichment Program according to current directives that require attendance at sixteen sessions over the term of the Bachelor's degree
<p style="text-align: center;">Mathematics (B.A.)</p>	<ol style="list-style-type: none"> 1. Successfully prove advanced mathematical theorems in at least two of the major disciplines (i.e., algebra, analysis, number theory, probability/statistics, etc.) 2. Successfully communicate mathematical concepts, and results of mathematical investigations suitable for the audiences of other mathematicians and consumers of mathematical analysis

Mathematics (B.S.)

1. Successfully prove advanced mathematical theorems in at least two of the major disciplines (i.e., algebra, analysis, number theory, probability/statistics, etc.)
2. Successfully communicate mathematical concepts, and results of mathematical investigations suitable for the audiences of other mathematicians and consumers of mathematical analysis

Mechanical Engineering (B.S.)

1. Successfully apply knowledge in mathematics (through multivariate calculus and differential equations, with familiarity in statistics and linear algebra)
2. Successfully apply knowledge in science (chemistry and calculus-based physics, with depth in physics)
3. Successfully apply knowledge in engineering, including the formulation and solution of engineering problems
4. Use techniques, skills and tools (contemporary analytical, computational and experimental) necessary for modern engineering practice
5. Design, conduct, and analyze results of experiments
6. Actively participate in teams, including multi-disciplinary teams
7. Communicate effectively
8. Successfully accomplish design and realization of thermo-fluid and mechanical systems, components, and processes
9. Understand professional and ethical ramifications of engineering solutions within the context of modern society
10. Cultivate capacity for life-long learning

Mechanical Engineering (M.S.)

1. Demonstrate the ability to solve advanced engineering problems in fluid flow, thermodynamics, heat transfer and dynamic
2. Demonstrate the ability to use both mathematical analysis and finite element methods to solve engineering problems
3. Communicate effectively in oral presentations and report writing

Music (B.A.)

1. Successfully experience and understand music as a performance art
2. Understand, analyze and utilize the grammar and language of musical art and communication
3. Apply knowledge in understanding music as culture and in its cultural and social context

Music Industry (B.A.)

1. Successfully apply knowledge in understanding music as culture and in its cultural and social context
2. Effectively apply sound recording methodology and technique in conceiving and realizing music and sound recordings and the meaning of mediated music in culture
3. Actively engage in the commodification of music and its role as intellectual property in terms of ownership, production, promotion, and distribution

Music & Sound Recording (B.A.)

1. Successfully apply knowledge in understanding music as culture and in its cultural and social context
2. Understand, analyze and utilize the grammar and language of musical art and communication
3. Effectively apply sound recording methodology and technique in conceiving and realizing music and sound recordings and the meaning of mediated music in culture

National Security (B.S.)

1. Identify the policies, principles and concepts employed to develop, implement and oversee US national security institutions and programs
2. Identify the structure and basic principles that inform the context of the national security establishment of the United States
3. Assess the roles and relationships of the national security enterprise, international organizations, the private sector, the media and the public in the process of developing and achieving national security policies and programs
4. Analyze the executive and legislative framework which is the basis for our national security, military, homeland security, counter-terrorism and intelligence strategies
5. Evaluate assets, threats and vulnerabilities of critical infrastructure using analytic methods and/or tools

National Security Public Safety (M.S.)

1. Discuss and critique the policies, principles and concepts employed to develop, implement and oversee US national security institutions and programs
2. Assess the structure and basic principles which are the context of the national security establishment of the United States
3. Critically evaluate the roles and relationships of the national security enterprise, international organizations, the private sector, the mass media and the public in the process of developing and achieving national security policies and programs using sound logic and methodically using approved tools

	<ol style="list-style-type: none"> 4. Analyze the executive and legislative framework which is the basis for our national security, military, homeland security, counter-terrorism, cyber security and intelligence strategies 5. Evaluate assets, threats and vulnerabilities of critical infrastructure and information operations and create solutions to address risks
<p style="text-align: center;">Network Systems (M.S.)</p>	<ol style="list-style-type: none"> 1. Design and test a computer network that satisfies user specifications 2. Understand the algorithms and methods used to protect information stored on computers or transmitted across networks 3. Understand the standard techniques used to attack computer systems and networks and design a security defense plan to defend against these attacks 4. Successfully administer and protect a network of computers 5. Demonstrate the ability to work independently
<p style="text-align: center;">Nutrition and Dietetics (B.S.)</p>	<ol style="list-style-type: none"> 1. Retention of students 2. Advising of students 3. Graduate satisfaction 4. Placement and employment of graduate
<p style="text-align: center;">Painting (B.F.A.)</p>	<ol style="list-style-type: none"> 1. Demonstrate knowledge and mastery of the tools, methods, and materials of painting 2. Apply formal conventions of painting, including the elements and conventions of design (space, form, line, etc.) and color theory 3. Analyze one owns work as well as other artists' works (peers and professionals), identifying qualities that distinguish one's own work from others' 4. Demonstrate and develop an independent style and direction in painting that synthesizes support from experience in foundation components of design, the tools, methods, and materials of painting 5. Create paintings that build upon and employ ideas explored in art historical, contemporary practices, and cultural, personal and/or other academic areas of inquiry
	<ol style="list-style-type: none"> 1. Integrates comprehensive knowledge of EMS systems, safety/well-being of the paramedic, and medical/legal and ethical issues, which is intended to improve the health of EMS personnel, patients, and the community

Paramedicine (A.S.)

2. Integrates a complex depth and comprehensive breadth of knowledge of the anatomy and physiology of all human systems. Expresses comprehensive anatomical and medical terminology and abbreviations into the written and oral communication with colleagues and other health care professionals. Integrates comprehensive knowledge of pathophysiology of major human systems
3. Applies fundamental knowledge of principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention

Paramedicine (B.S.)

1. Integrates comprehensive knowledge of EMS systems, safety/well-being of the paramedic, and medical/legal and ethical issues, which is intended to improve the health of EMS personnel, patients, and the community
2. Integrates a complex depth and comprehensive breadth of knowledge of the anatomy and physiology of all human systems. Expresses comprehensive anatomical and medical terminology and abbreviations into the written and oral communication with colleagues and other health care professionals. Integrates comprehensive knowledge of pathophysiology of major human systems
3. Applies fundamental knowledge of principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention

Political Science (B.A.)

1. Apply knowledge of American institutions to contemporary issues
2. Identify the strengths and weaknesses of different political institutions
3. Evaluate the political behavior of political events, actors, and institutions
4. Create research proposal using qualitative and/or quantitative methods
5. Assess solutions to contemporary problems

Public Administration (M.P.A.)

1. Apply knowledge of the literature and schools of thought in the discipline of public administration as well as the areas of organization theory, human resources, public budgeting, and basic macroeconomics
2. Understand all aspects of public policy formulation and implementation, particularly at the local level
3. Design, execute, analyze, and interpret social science research. To complete the above, students must have a grasp of social science statistics and SPSS, as the tool of analysis
4. Apply professional and ethical standards to public service

Psychology (B.A.)

1. Prepare for entry level employment in Psychology and related fields or advancement into graduate school in Psychology and related fields
2. Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology
3. Apply basic research methods in psychology, including research design, data analysis, and interpretation
4. Demonstrate critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.; weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a discipline
5. Understand the basic research, data analytic, and scholarly methods used by psychologists; write competently and in a scholarly manner and to speak well publicly

Sculpture (B.F.A.)

1. Demonstrates proficiency in applying the knowledge and mastery of the tools, methods, and materials of sculpture to create 3-D works of art
2. Demonstrate observational skills, visual acuity and scrutiny associated with the medium of sculpture and demonstrates the 'compass of the eye' as the primary source of organizing form in space, as opposed to the instruments for regulating observation. Exhibit high efficient and coordinated performance. Integrate and adapt received conventions with observations
3. Analyze one owns work as well as other artists' works (peers and professionals), identifying qualities that distinguish one's own work from others'
4. Demonstrate and develop an independent style and direction in sculpture that synthesizes support from experience in foundation components of design, the tools, methods, and materials of sculpture
5. Create paintings that build upon and employ ideas explored in art historical, contemporary practices, and cultural, personal and/or other academic areas of inquiry

System Engineering (B.S.)

1. Effectively apply knowledge of mathematics, science, and engineering
2. Design and conduct experiments, as well as to analyze and interpret data
3. Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
4. Successfully function on multidisciplinary teams
5. Identify, formulate, and solve engineering problems
6. Understand professional and ethical responsibility

7. Communicate effectively
8. Demonstrate broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
9. Recognize the need for and demonstrates an ability to engage in life-long learning
10. Demonstrate a knowledge of contemporary issues
11. Effectively use techniques, skills, and modern engineering tools necessary for engineering practice

Taxation (M.S.)

1. Understand the economic, political and social objectives of tax legislation; demonstrate facility with functional areas of taxation
2. Apply knowledge from “1” toward analysis and recommendations for action in a business situation and recommend alternative courses of tax planning and recognize their consequences; solve quantitative tax problems as applied to business situations
3. Be knowledgeable about research tools that can be used to make themselves more effective in the process of developing and applying their tax strategies
4. Demonstrate an ability to analyze the ethical and social ramifications of tax compliance and planning decisions
5. Produce communications that are understandable, defensible, concise and that use appropriate tools of analysis in reaching conclusions and recommendations

Theater (B.A.)

1. Effectively analyze a production in terms of the process involving creative/production team contributions and how they intersect and diverge
2. Effectively analyze a text (written, visual and performance) advancing interpretations by incorporating concrete details about content, style and form from primary sources for support
3. Synthesize the connections between social and political context and historical theatrical movements
4. Successfully perform multiple roles within the field of theater and performance (e.g. actor, designer, playwright, critic) as evidenced by participation in departmental production