

College	Learning Outcomes	URL
Agriculture and Life Sciences	Explain the physical and biological interactions within ecosystems • Explain how human activities impact the environment and how societies are affected by environmental change • Articulate personal life experiences and choices within the context of the larger mosaic of U.S. society, indicating how they have confronted and critically analyzed their perceptions and assumptions about diversity-related issues • Analyze and evaluate the contributions of various underrepresented social groups in shaping the history and culture of the U.S. • Analyze individual and institutional forms of discrimination based on factors such as race, ethnicity, gender, religion, sexual orientation, class, etc • Analyze the perspectives of groups and individuals affected by discrimination • Analyze how cultural diversity and cooperation among social groups affect U.S. society • Analyze the accuracy and relevancy of their own worldviews and anticipate how people from other nations may perceive that worldview • Describe and analyze how cultures and societies around the world are formed, are sustained, and evolve • Analyze and evaluate the influence of global issues in their own lives • Describe the values and perspectives of cultures other than their own and discuss how they influence individuals' perceptions of global issues and or events	http://www.cals.iastate.edu/assessment/outcomes
Design	Become successful designers, planners, artists, scholars and citizens who improve the quality of life • Enhance human experience • Advance environmental sustainability • Serve as a resource for Iowa and beyond through research, creative endeavors, extension and outreach • Value innovation, curiosity, collaboration, open exchange of ideas, diverse perspectives, and environmental and social responsibility • Become known for the ability to lead interdisciplinary processes and draw upon disciplinary expertise to generate informed, innovative responses to challenges and opportunities	https://www.design.iastate.edu/college/mission-values-vision/
Liberal Arts and Sciences	Become knowledgeable, inquisitive, and creative citizens and leaders, ready to address the challenges of the 21st century • Embrace discovery and creativity as part of what it means to be human, and as essential activities to ensure a sustainable future for our planet and its inhabitants • Conduct world-class research at the most advanced scientific and societal frontiers • Seek new discoveries, innovative applications, and new technologies in a socially responsible manner that integrates scientific findings with the unique historical, cultural, and political environments of communities across the globe • Sharpen communication, critical thinking, inquiry, and ethical decision-making skills • Build the content knowledge, scientific, digital, and cultural literacy, intellectual curiosity, and personal maturity to succeed in a rapidly changing and globally connected world • Embrace the full spectrum of human creativity, innovation, and empathy to address these challenges • Lead the nation and the world in integrating scientific, technological, cultural, and historical perspectives in order to arrive at the most sustainable solutions, of the greatest benefit to our societies and the planet	https://strategicplan.las.iastate.edu/
Veterinary Medicine	Enhance health and well-being of animals and human beings through excellence in education, research, professional practice and committed service to the State of Iowa, the nation and the world • Promote animal and human health with significant influence on society's food supply, while providing a caring and supportive work environment • Conduct affairs with the utmost integrity knowing that interactions with one another and the public • Demand the best moral, ethical and professional behavior • Commit to advancing the health and welfare of animals, humans and the environment	https://vetmed.iastate.edu/about/about-us/mission-strategic-plan

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Aerospace Engineering	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 • Understand professional and ethical responsibility • Understand the impact of engineering solutions in a global, economic, environmental, and societal context • Aware of the societal, economic and environmental impact of their work	https://www.aere.iastate.edu/accreditation/
Agricultural Engineering	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 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	https://catalog.iastate.edu/collegeofengineering/agriculturalengineering/
Biological Systems Engineering	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 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	https://catalog.iastate.edu/collegeofengineering/biologicalsystemsengineering/
Biology	Communicate and apply biological principles and global perspectives in an ethical manner to issues in human society • Explain and apply the effects humans have on ecosystems and what humans can do to mitigate negative impacts they have on ecosystems • Apply quantitative skills such as estimation, graphing data, statistical analyses, and analysis of large datasets • Evaluate and summarize experimental evidence, using quantitative or computational skills	https://www.biology.iastate.edu/biology-major-learning-outcomes
Chemical Engineering	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 • 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 • Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	https://catalog.iastate.edu/collegeofengineering/chemicalengineering/
Chemistry	Understand the ethical, historic, philosophical, and environmental dimensions of problems and issues facing chemists • Be skilled in problem solving, critical thinking and analytical reasoning • Be able to communicate the results of their work to chemists and non-chemists •	https://www.chem.iastate.edu/assessment
Civil, Construction, and Environmental Engineering	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 • Understand of professional and ethical responsibility • Understand the impact of engineering solutions in a global, economic, environmental, and societal context • Aware of the societal, economic and environmental impact of their work	http://www.ccee.iastate.edu/ccee-department/accreditation/

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Climate Science	<p>Understand scientific principles and their application to scientific inquiry and to societal concerns relating to climate change science • Demonstrate a broad understanding of the climate system, how it works on multiple timescales, and the utility of tools, such as models, and their strengths and limitations in the context of climate change science • Demonstrate a broad understanding of climate science issues and policies • Think critically about the range of climate information, data, and literature coming from a variety of sources and distil application-relevant knowledge • Demonstrate proficiency in data analysis and problem-solving of relevant climate science issues/problems systems/problems • Understand societal concerns related to climate change to develop and/or promote practical and applied research within the climate change research community • Work with diverse teams whose members have a range of professional and disciplinary skills relevant to climate issues • Work to identify climate-related needs and develop strategies to address these needs • Use systems thinking approaches to better understand/solve climate change issues</p>	<p>https://www.iowaregents.edu/media/cms/0722_AAC_7_ISU_Climate_Sci_2C3911064EC46.pdf</p>
Community and Regional Planning (Master's)	<p>Utilize planning theory, ethics, and the ideas of equity and social justice to make sound ethical judgments and develop more effective planning processes • Critically analyze how social, cultural, and economic forces influence land use changes • Create alternative scenarios for the future and have experience applying these ideas through active learning and real life experiences • Engage communities, identify a range of tools that can be applied to different situations, and demonstrate their ability to expand participation, ensure inclusion, and give voice to diverse stakeholders • Demonstrate knowledge and ability to create sustainable and resilient communities within a changing world.</p>	<p>https://www.design.iastate.edu/wp-content/uploads/2016/08/MCRP_Learning_Outcomes.pdf</p>
Computer Engineering	<p>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 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</p>	<p>https://catalog.iastate.edu/collegeofengineering/computerengineering/</p>
Culinary Food Science	<p>Facilitate and participate effectively in a group, team, or organization • Plan life-long learning activities with the aim of improving professional skills • Integrate creativity, innovation, or entrepreneurship in ways that produce value • Describe sociocultural competence relative to diversity, equity and/or inclusion • Explain how human activities impact the natural environment and how societies are affected • Discuss basic principles of common food preservation methods • Describe techniques that can be used to monitor quality of raw ingredients and final products • Locate and interpret government regulations regarding the manufacture and sale of food products • Identify and explain nutrients in foods and the specific functions in maintaining health • Identify specific culinary trends including the cultural and regional cuisines • Apply principles from the various facets of culinary science and related disciplines to solve practical, real-world problems</p>	<p>https://fshn.hs.iastate.edu/staff-and-faculty/resources/outcomes-assessment/learning-outcomes/</p>
Cyber Security Engineering	<p>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 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</p>	<p>https://catalog.iastate.edu/collegeofengineering/cybersecurityengineering/</p>

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Diet and Exercise	Demonstrate proficiency in interpersonal communication and the ability to work successfully in teams to solve multidisciplinary problems • Effectively prepare and deliver technical information to food science/human nutrition and exercise science professionals as well as to the general public • Critically evaluate information, including the ability to distinguish verifiable facts from value claims, detect bias, and identify sources of conflicts • Understand the dimensions of issues facing professionals in the field of nutrition and exercise science, including ethical, cultural, and environmental components • Identify important health-related interactions between dietary nutrients and exercise used to assess and design dietary and exercise programs for maintenance of optimal health • Explain the impact of health care policy and different health care delivery systems on food and nutrition services • Develop interventions to affect change and enhance wellness in diverse individuals and groups	https://fshn.hs.iastate.edu/future-students/find-your-major/diet-and-exercise/diet-and-exercise-student-learning-outcomes/
Electrical Engineering	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 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	https://catalog.iastate.edu/collegeofengineering/electricalengineering/
Executive MBA	Critical thinking in food, agriculture, and biosystems • Recognize ethical and global responsibilities around food, agriculture, and biosystems	https://www.ivybusiness.iastate.edu/about/learning-goals/
Food Science and Human Nutrition	Facilitate and participate effectively in a group, team, or organization • Plan life-long learning activities with the aim of improving professional skills • Integrate creativity, innovation, or entrepreneurship in ways that produce value • Describe sociocultural competence relative to diversity, equity and/or inclusion • Explain how human activities impact the natural environment and how societies are affected • Discuss basic principles and practices of cleaning and sanitation in food processing operations, as well as requirements for water utilization and waste management • Explain functions of specific nutrients in maintaining health • Apply principles from the various facets of food science and related disciplines to solve practical, real-world problems • Apply principles from the various facets of food science and related disciplines to solve practical, real-world problems	https://fshn.hs.iastate.edu/staff-and-faculty/resources/outcomes-assessment/learning-outcomes/
Food Science and Human Nutrition (Master's)	Discuss basic principles and practices of cleaning and sanitation in food processing operations, as well as requirements for water utilization and waste management • Locate and interpret government regulations regarding the manufacture and sale of food products • Apply principles from the various facets of food science and related disciplines to solve practical, real-world problems	https://fshn.hs.iastate.edu/staff-and-faculty/resources/outcomes-assessment/learning-outcomes/
Genetics	Understanding of how genetic concepts affect broad societal issues including health and disease, food and natural resources, environmental sustainability, etc.	https://undergrad.genetics.iastate.edu/learning-outcomes-and-outcomes-assessment
Industrial Engineering	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 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	https://catalog.iastate.edu/collegeofengineering/industrialengineering/

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Landscape Architecture	<p>Design landscapes as systems in the context of existing and proposed ecological, economic, social, legal, and cultural systems • Inventory and analyze sites, and apply this information to design • Use information from public participation/community involvement to design landscapes • Design stormwater management systems informed by sustainable ecological and engineering principles • Develop schematic/conceptual ideas that address site design standards, zoning, and other legal requirement • Observe, describe and assess geological, hydrological, and ecological systems • Understand and apply principles of ecology and sustainability to design at a variety of scales • Identify and inventory plant and plant community dynamics of the Midwest region as a model for understanding plant dynamics in other regions • Incorporate knowledge of plants (their forms, soil and climate requirements, ecologies and communities, and cultural meanings) into design proposals • Understand and practice landscape architecture as a continuously changing historical and cultural activity • Incorporate community design/participatory design theory as part of landscape architectural practice • Apply human constructs relating to space and environment (eg, “nature”) • Interpret how social, cultural, and political dynamics affect the use and design of public and private space • Investigate how physical design and design process can effect social and cultural change • Understand and accept varying cultural beliefs, values, and perceptions • Understand how personal beliefs, values, and perceptions relate to others’ beliefs, values, and perceptions in professional settings • Practice professional ethics, judgment and skills and understand the professional’s role as a fiduciary</p>	<p>https://www.design.iastate.edu/landscape-architecture/about-us/mission-and-goals/</p>
Materials Engineering	<p>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 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</p>	<p>https://catalog.iastate.edu/collegeofengineering/materialsengineering/</p>
Mechanical Engineering	<p>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 • 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 • Be effective collaborators and innovators, leading or participating in efforts to address social, technical and business challenges</p>	<p>http://www.me.iastate.edu/accreditation/</p>

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<p>Natural Resource Management and Ecology</p>	<p>Identify, critically evaluate, and state their beliefs and values as they relate to professional and societal ethical standards, for any given situation • Elaborate on how those values and beliefs impact actions • Explain which specific canons or principles of a professional code of ethics are applicable to a particular situation • Explain the ecological, economic, and social consequences that reasonably could be expected to occur as the result of actions taken to address the issue • Actively seek the input and perspectives of diverse stakeholders regarding natural resource problems and issues • Incorporate those inputs and perspectives into the decision making process • Work effectively, both individually and with others, on complex, value-laden natural resource problems that require holistic problem solving approaches • Work effectively with diverse individuals and groups to reach consensus on problem solutions • Formulate and evaluate alternative solutions to complex problems and recommend and defend best alternatives • Evaluate each of the feasible alternatives in terms of biological possibility, economic feasibility and social acceptability • Recommend best alternatives based on the stakeholders' objectives • Justify recommendations on the basis of sound science • Recognize and interpret resource problems and opportunities across spatial scales from local to global • Recognize where resource problems and opportunities can or could exist, and they evaluate and interpret these for others • Evaluate and interpret for individual landowners at a very local scale as well as for problems that span multiple ownerships, regions and ecosystems • Appreciate cultural diversity and understand the impact of the global distribution of people and wealth on natural resource use and valuation • Account for differing uses and valuations when making management decisions about natural resources • Demonstrate creativity and innovation in identifying and pursuing opportunities that produce environmental, social, or economic value • Identify opportunities to promote understanding of natural resource issues • Demonstrate persistence when working with individuals who have diverse interests in order to build consensus and facilitate accomplishing stated objectives</p>	<p>https://www.nrem.iastate.edu/assessment/graduates</p>
<p>Nursing</p>	<p>Synthesize theory and concepts from the arts and humanities, natural and social sciences, and nursing in the holistic practice of professional nursing • Integrate knowledge of historical and contemporary nursing with leadership skills and principles to facilitate optimal patient and systems outcomes • Translate research findings to support evidence-based, competent, safe, and effective nursing care to individuals, families, and communities in diverse settings across the lifespan • Utilize current technology effectively and efficiently to communicate, manage knowledge, mitigate error, support decision making and accomplish goals related to the delivery of safe, quality care for diverse individuals, families, and the community • Examine how healthcare policies, including financial and regulatory, influence healthcare systems, nursing practices and population health • Integrate concepts of health promotion and disease management, health literacy and patient-centered care to improve population health • Engage in professional, culturally competent, and ethically congruent care that reflects dignity and uniqueness of individuals and groups in diverse populations and locations • Demonstrate a commitment to professionalism and model the values of advocacy, compassion, integrity, human dignity, cultural competence and social justice while embracing the concept of continuous learning</p>	<p>https://catalog.iastate.edu/collegeofhumansciences/nursing/#text</p>
<p>Software Engineering</p>	<p>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 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</p>	<p>https://catalog.iastate.edu/collegeofengineering/softwareengineering/</p>

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Sustainable Agriculture (Master's)	Demonstrate an ability to frame problems and ask critical questions concerning agricultural sustainability • Demonstrate an ability to critique different problem-solving methods and approaches, and recognize and display visionary leadership with moral and ethical integrity • Demonstrate a knowledge of biophysical as well as socioeconomic aspects of agricultural sustainability • Demonstrate an appreciation of the intellectual history of efforts to improve agricultural sustainability	https://www.susag.iastate.edu/academics

Course	Learning Outcomes	Graduates
Marketing 340 - Principles of Marketing (required for all College of Business undergraduates)	Describe how global marketing decisions must align with the macroenvironment and consumer preferences of the country or region • Recognize and distinguish between conscious marketing and social responsibility • Identify the socially responsible/ethical values and responsibilities marketers should embrace • Understand diffusion of innovation and product life cycle • Analyze the marketing environment using marketing tools (e.g., SWOT analysis)	1252
Management 372 - Responsible Management and Leadership in Business (required for all College of Business undergraduates)	Recognize ethical implications in business decision making • Evaluate the concept of Corporate Social Responsibility, and discuss its relevance to ethical business activity • Recognize ethical implications in business decision • making • Describe different models, theories, and perspectives of leadership as they relate to ethical behavior of leaders and followers • Articulate the role of corporate governance in developing and institutionalizing an ethical organization • Discuss the role of individual difference characteristics in ethical leadership • Understand the relationship between managerial ethics and organizational behavior/design/culture • Articulate the stakeholder management concept and the ethical implications of having multiple stakeholders--employees, consumers, suppliers, the community, and society • Evaluate the concept of Corporate Social Responsibility, and discuss its relevance to ethical business activity	1252
Accounting 489/589, Corporate Social Responsibility, Reporting and Accountability - (required for all Master of Accounting students)	Ability to think critically and creatively about accounting issues • Research on corporate decisions that had an environmental impact Research Project on CSR disclosures • Awareness and sensitivity for dealing with ethical and social concerns, particularly in light of one's personal values • Develop a basic understanding of the definitions of Corporate Social Responsibility and possible reporting paradigms	25

<p>Apparel, Merchandising, and Design 372/572, Sourcing and Global Issues (required for all Apparel, Merchandising, and Design undergraduate and graduate students)</p>	<p>Critically evaluate forces affecting global production, trade, and consumption of textile, apparel, and related products • Apply knowledge of global textiles and apparel supply chain to evaluate domestic and international sourcing options for specific products and companies (including political, economic, and cultural forces and trade regulations) • Formulate solutions for social responsibility and sustainability issues in the textile and apparel industries • Apply knowledge of global textiles and apparel supply chain to evaluate domestic and international sourcing options for specific products and companies</p>	<p>114</p>
<p>Food Science and Human Nutrition 342 - World Food Issues (required for all undergraduate Dietetics majors)</p>	<p>Interpret contemporary global, national, regional, and local issues relating to food, hunger, food security, and their root causes. • Outline the major components of the agriculture and food system and identify the key connections and relationships among the components. • Identify interrelated economic, political and social issues related to world hunger in developing nations.</p>	<p>46</p>
<p>Management 503, Professional Responsibility in Business and Society (required for all MBA and Executive MBA graduates)</p>	<p>Integrate ethical and global perspectives in decision making • Evaluate ethical and value-based situations as individual employees, in the role of managers, and from an organizational perspective • Analyze ethical dilemmas using a variety of ethical frameworks • Identify the consequences and trade-offs associated with ethical decision-making</p>	<p>89</p>