

Social Sciences Program Learning Outcomes	Sustainability Learning Outcome?	Description of Sustainability Learning Outcome
Energy Economics, MEECOM	yes	Be better able to communicate insights arising from the economics perspective on issues affecting the energy sector.
Sociology, BA	yes	Gain richer understanding of the social world, including class, race, gender, ethnicity, education, family, occupation, deviancy, health, and global citizenship as well as how the human social world impacts its environment.
Sociology, PhD	yes	See above
School of Natural Sciences Program Learning Outcomes		
Biological Sciences, BA	yes	Demonstrate understanding of the practice and culture of science, scientific ethics, and the relationship between science and society.
Ecology and Evolutionary Biology, BA	yes	Demonstrate understanding of the practice and culture of science, scientific ethics, and the relationship between science and society.
Ecology and Evolutionary Biology, BS	yes	Demonstrate understanding of the practice and culture of science, scientific ethics, and the relationship between science and society.
Ecology and Evolutionary Biology, MA	yes	Demonstrate comprehensive knowledge of current and past research accomplishments and techniques in ecology and evolutionary biology.
Ecology and Evolutionary Biology, PhD	yes	Demonstrate comprehensive knowledge of current and past research accomplishments and techniques in ecology and evolutionary biology.
Earth Science, BA	yes	Understand the structure and composition of the Earth and Planets, their evolution, and changing the Earth today.
Earth Science, BS	yes	Understand the structure and composition of the Earth and Planets, their evolution, and changing the Earth today.
Earth Science, MS	yes	Understand the structure and composition of the Earth and Planets, their evolution, and changing the Earth today.
Earth Science, PhD	yes	Understand the structure and composition of the Earth and Planets, their evolution, and changing the Earth today.
Environmental Science, BA	yes	Understand environmental issues from a scientific perspective and be able to solve issues using a variety of interdisciplinary perspectives (e.g., social sciences, economics, humanities, and/or architecture).

Environmental Analysis and Decision Making, MS	yes	Be able to apply the rigorous technical and analytical skills required by industrial and governmental organizations to deal with environmental issues.
School of Music Program Learning Outcomes		
School of Humanities Program Learning Outcomes		
School of Engineering Program Learning Outcomes		
Bioengineering, BSBE	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Bioengineering, MBE (Applied Track)	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Bioengineering, MBE (Global Medical Innovation Track)	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Bioengineering, PhD	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

Chemical and Biomolecular Engineering, BS(ChE)	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Chemical and Biomolecular Engineering, MChE	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Chemical and Biomolecular Engineering, PhD	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Civil Engineering, BS	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Civil and Environmental Engineering, MCEE	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Civil and Environmental Engineering, PhD	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

Electrical and Computer Engineering, BS	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Electrical Engineering, MEE	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Electrical Engineering, PhD	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Materials Science and Nanoengineering, BS	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Materials Science and Nanoengineering, MMSNE	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Materials Science and Nanoengineering, MS	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

Materials Science and Nanoengineering, PhD	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Mechanical Engineering, BS	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Mechanical Engineering, MME	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Mechanical Engineering, PhD	yes	An ability to 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. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
Energy and Water Sustainability, Minor	yes	Apply basic economic concepts applicable to energy and water sustainability including applicable aspects of environmental economics and project-scale economic issues. Understand basic environmental issues applicable to energy and water sustainability.
School of Continuing Studies Program Learning Outcomes		
School of Business Program Learning Outcomes		
School of Architecture Program Learning Outcomes		

Architecture, BA	yes	Formulate architectural projects that integrate design skills with critical thinking, engaging broader theoretical, social, political, economic, cultural, and environmental issues. Explore how technology, issues of the environment, and construction inform innovative design solutions.
Architecture, BArch	yes	The BAarch is a continuation of the BA program, and as such the BA learning outcomes are embedded within this track. The BArch contains an additional two years, inclusive of a preceptorship.
Architectural Studies, BA	yes	Gain knowledge of the history and theory of architecture in relation to broader social, technological and cultural practices and transformations. Understand the design process in architecture through a variety of scales and problems and with an appreciation of design's importance in the quality of our cities and environment.
Master of Architecture, MArch	yes	Develop or augment design and communication skills to formulate architectural projects that engage broader theoretical, social, political, economic, cultural, and environmental issues at a level commensurate with advanced study.
Architecture, MA	yes	Integrate architecture and advanced research to address the most pressing and complex issues of design, environment and culture.