

## Some Common Professional Degrees that ES Majors Pursue

### **Master of Environmental Management (MEM)**

The MEM degree focuses on preparing students for leadership roles in environmental and sustainability management. It typically covers topics such as environmental policy, natural resource management, and sustainable business practices, equipping graduates to work in a wide range of environmental organizations and agencies.

#### Examples of MEM Programs:

- ❖ Duke University - Nicholas School of the Environment: The MEM program at Duke University's Nicholas School of the Environment offers a comprehensive curriculum in environmental management. Students can choose from various concentrations, such as Ecosystem Science and Conservation, Environmental Economics and Policy, and Water Resources Management. Graduates from this program often pursue careers in environmental consulting, natural resource management, and environmental policy.
- ❖ Yale School of Forestry & Environmental Studies: Yale's School of Forestry & Environmental Studies offers an MEM program focusing on environmental management and policy. Students have access to a wide range of interdisciplinary courses and can engage in hands-on field experiences. Graduates of this program often work in government agencies, nonprofit organizations, and private sector companies addressing environmental challenges.
- ❖ UCSB Bren School of Environmental Science and Management: The MESM program at UCSB's Bren School is an interdisciplinary graduate program designed to prepare students for leadership roles in environmental science, policy, and management. It emphasizes a holistic and solutions-oriented approach to address complex environmental challenges.

### **Master of Environmental Science and Policy (MESP)**

MESP programs provide an interdisciplinary approach to understanding and addressing environmental challenges. Graduates gain a deep understanding of environmental science and policy analysis, making them well-suited for roles that require bridging the gap between scientific research and policy implementation.

#### Examples of MESP Programs:

- ❖ Columbia University - School of International and Public Affairs: Columbia's School of International and Public Affairs offers an MESP program that combines environmental science and policy analysis. Students gain a strong foundation in environmental science while also developing skills in policy analysis and decision-making. Graduates often work on environmental policy issues in government, international organizations, and research institutions.
- ❖ University of Chicago - Harris School of Public Policy: The University of Chicago's Harris School of Public Policy offers an MESP program that focuses on environmental policy and economics. Students learn to apply quantitative and analytical tools to address complex environmental challenges. Graduates from this program pursue careers in policy analysis, research, and environmental consulting.

### **Master of Public Administration (MPA) with an Environmental Policy or Management Concentration**

This degree combines the principles of public administration with a focus on environmental policy or management. Graduates are prepared for careers in government agencies, non-profits, and advocacy organizations, where they work on environmental policy development, implementation, and management.

#### Examples of MPA Programs:

- ❖ Harvard Kennedy School: Harvard's Kennedy School offers an MPA program with a concentration in Environmental Policy and Planning. Students in this program gain a strong foundation in public administration while specializing in environmental policy and management. Graduates often work in leadership roles in government agencies and nonprofit organizations.
- ❖ University of California, Berkeley - Goldman School of Public Policy: UC Berkeley's Goldman School of Public Policy offers an MPA program with a concentration in Environmental Policy and Management. Students in this program learn how to address environmental challenges through policy analysis and management strategies. Graduates pursue careers in environmental policy development, implementation, and advocacy.

#### **Master of Public Policy (MPP) with a focus on environmental policy**

This degree combines the principles of public administration with a focus on environmental policy or management. Graduates are prepared for careers in government agencies, non-profits, and advocacy organizations, where they work on environmental policy development, implementation, and management.

#### Examples of MPP Programs:

- ❖ Princeton University - Woodrow Wilson School of Public and International Affairs: Princeton's Woodrow Wilson School offers an MPP program with a focus on environmental policy. Students receive training in policy analysis, economics, and public affairs, preparing them for roles in environmental policy research and advocacy.
- ❖ University of Michigan - Gerald R. Ford School of Public Policy: The University of Michigan's Ford School offers an MPP program with a specialization in Environmental Policy and Planning. Students gain the skills and knowledge needed to work on environmental policy issues in government, nonprofits, and research organizations.

#### **Master of Business Administration (MBA) with a concentration in Sustainability or Environmental Management**

MBA programs with sustainability or environmental management concentrations prepare students for leadership roles in businesses with a focus on sustainability. Graduates often work on sustainable business strategies, green supply chain management, and corporate social responsibility.

#### Examples of MBA Programs:

- ❖ University of Michigan - Ross School of Business: The University of Michigan's Ross School of Business offers a Full-Time MBA program with a Sustainability Concentration that allows students to focus on sustainable business practices and environmental management. The concentration includes courses in sustainable supply chain management, corporate sustainability strategies, and environmental and social impact assessment. Students also have opportunities to engage in sustainability-related projects and initiatives.
- ❖ Presidio Graduate School: Presidio Graduate School is dedicated to sustainability education. Their MBA in Sustainable Solutions program is designed explicitly for students interested in careers related to sustainability and environmental management. The program integrates sustainable business principles into its entire curriculum, covering areas such as sustainable finance, environmental policy, and social entrepreneurship. It also emphasizes experiential learning and includes a capstone project focused on addressing real-world sustainability challenges.

#### **Juris Doctor (JD) with an Environmental Law Specialization**

This degree is for individuals interested in practicing environmental law. Graduates work as environmental attorneys, representing clients in legal matters related to environmental regulations, land use, and natural resource management.

#### Examples of JD Programs:

- ❖ Vermont Law School: Vermont Law School is renowned for its Environmental Law Center, which offers one of the most extensive and highly regarded environmental law programs in the United States. They offer a variety of environmental law programs, including a Juris Doctor (JD) with a concentration in Environmental Law, a Master of Environmental Law and Policy (MELP), and a Master of Laws (LL.M.) in Environmental Law. The school is known for its strong faculty expertise, environmental law clinics, and a wide range of environmental law courses.
- ❖ Lewis & Clark Law School - Northwestern School of Law of Lewis & Clark College: Lewis & Clark Law School's Environmental, Natural Resources, and Energy Law Program is renowned for its focus on environmental law. The program offers a variety of JD concentrations and certificates in environmental law and natural resources law. It also hosts the annual Public Interest Environmental Law Conference (PIELC), one of the largest environmental law conferences in the world. Students have access to a wide range of environmental law courses, clinics, and externship opportunities.

#### **Master of Science in Environmental Engineering (MSEE)**

MSEE programs focus on advanced engineering principles applied to environmental problems. Graduates are well-prepared for careers in areas such as air and water quality management, waste management, and environmental consulting.

#### Examples of MSEE Programs:

- ❖ Stanford University - Department of Civil and Environmental Engineering: Stanford University's MSEE program provides students with advanced training in environmental engineering. The program covers a wide range of topics, including water quality and treatment, air pollution control, environmental biotechnology, and sustainable design. Students have the opportunity to engage in research projects and collaborate with faculty on cutting-edge environmental engineering research.
- ❖ University of California, Berkeley - College of Engineering: UC Berkeley's College of Engineering offers an M.S.E.E. program with a focus on environmental engineering. The program emphasizes the application of engineering principles to solve complex environmental challenges. Students can choose from various electives related to water resources, environmental chemistry, and air quality. The program also offers opportunities for research and hands-on projects.

#### **Master of Forest Science (MFS)**

MFS programs are designed for those interested in forest management and conservation. Graduates often work in forestry, natural resource management, and environmental consulting.

#### Examples of MFS Programs:

- ❖ Yale School of Forestry & Environmental Studies (F&ES) - Yale University: Yale F&ES offers a Master of Forest Science program that provides students with in-depth knowledge and skills in forest ecology, management, and conservation. The program emphasizes interdisciplinary approaches to forest science and allows students to tailor their studies to their specific interests within the field of forestry.
- ❖ University of British Columbia (UBC) - Faculty of Forestry: UBC's Faculty of Forestry offers an MFS program that focuses on advanced topics in forestry and forest management. Students in this program have the opportunity to conduct research and engage in hands-on fieldwork in various forest ecosystems. The program is designed to prepare graduates for careers in forest research, management, and conservation.

#### **Master of Natural Resources (MNR)**

MNR programs provide a comprehensive understanding of natural resource management, including topics like conservation biology, land use planning, and sustainable resource management. Graduates can pursue careers in various environmental agencies and organizations.

#### Examples of MNR Programs:

- ❖ University of Idaho - College of Natural Resources: The MNR program at the University of Idaho's College of Natural Resources is an interdisciplinary program that provides students with a broad understanding of natural resource management. Students can choose from several tracks, including Ecosystem Sciences, Fire Ecology and Management, Geospatial Analysis, and Human Dimensions of Natural Resources. The program is designed for professionals seeking advanced knowledge and skills in natural resource management and conservation.
- ❖ Virginia Tech - College of Natural Resources and Environment: Virginia Tech's MNR program is designed for individuals interested in natural resource management and policy. It offers a flexible and interdisciplinary curriculum that allows students to customize their education based on their interests and career goals. Students can choose from a wide range of courses, including topics related to forestry, wildlife management, water resources, and sustainable land use planning.

### **Master of Sustainable Development (MSD)**

MSD programs focus on sustainable development practices and policies. Graduates work in roles that promote economic, social, and environmental sustainability, often within government agencies, NGOs, and international organizations.

#### Examples of MSD Programs:

- ❖ Columbia University - School of International and Public Affairs:
  - Program: Master of Public Administration in Environmental Science and Policy (MPA-ESP)
  - While Columbia University doesn't offer an MSD degree specifically, it offers a closely related program, the MPA-ESP. This program integrates environmental science and policy to provide students with a deep understanding of sustainability and environmental issues. Students study environmental management, policy analysis, and sustainable development, and they can tailor their studies to align with their sustainability interests.
- ❖ University of California, Berkeley - Goldman School of Public Policy:
  - Program: Master of Public Policy with a specialization in Sustainability and Environmental Policy
  - UC Berkeley's Goldman School of Public Policy offers an MPP program with a specialization in Sustainability and Environmental Policy. While not specifically an MSD, this program equips students with the knowledge and skills needed to address sustainability and environmental policy challenges. Students study policy analysis, environmental economics, and policy design with a focus on sustainability.

### **Master of Urban and Regional Planning (MURP) with an environmental planning focus**

MURP programs with an environmental planning focus train professionals to address urban and regional environmental challenges. Graduates work on urban sustainability, land use planning, and environmental impact assessment.

#### Example of MURP Programs:

- ❖ University of California, Berkeley - College of Environmental Design:
  - Program: Master of Urban and Regional Planning (MURP) with an Environmental Planning Concentration

- UC Berkeley's MURP program offers a concentration in Environmental Planning, allowing students to specialize in planning for sustainable and environmentally friendly urban development. The program covers topics such as land use planning, transportation planning, environmental impact assessment, and natural resource management within an urban context.
- ❖ University of North Carolina at Chapel Hill - Department of City and Regional Planning:
  - Program: Master of City and Regional Planning (MCRP) with an Environmental Planning Specialization
  - UNC Chapel Hill offers an MCRP program with a specialization in Environmental Planning. This specialization focuses on understanding and addressing environmental challenges in urban and regional contexts. Students gain expertise in environmental policy, land use planning, sustainability, and resilience planning to promote environmentally responsible urban development.

### **Master of Science in Environmental Health (MSEH)**

MSEH programs prepare individuals for careers in environmental health and safety. Graduates often work in public health agencies, environmental consulting firms, and industry to ensure environmental and occupational health standards are met.

#### Examples of MSEH Programs:

- ❖ Harvard T.H. Chan School of Public Health - Environmental Health Program:
  - Program: Master of Science in Environmental Health and Health Policy (MSEHHP)
  - While Harvard may not offer an MSEH program per se, its Environmental Health Program provides an MSEHHP degree that combines environmental health with a focus on health policy. This program prepares students to address environmental health challenges while understanding the broader policy implications. Topics covered may include environmental epidemiology, exposure assessment, and health policy analysis.
- ❖ University of California, Berkeley - School of Public Health:
  - Program: Master of Public Health (MPH) with a Concentration in Environmental Health Sciences
  - UC Berkeley offers an MPH program with a concentration in Environmental Health Sciences. While not an MSEH, this program focuses on environmental health and offers courses in areas such as toxicology, environmental epidemiology, and risk assessment. It is designed to prepare students for careers in public health, with an emphasis on environmental health issues.

### **Master of Agriculture with a specialization in Environmental Science or Management**

This program combines agricultural studies with a focus on environmental science or management. It equips students with the knowledge and skills to address agricultural and environmental challenges, such as sustainable farming practices, land use planning, and natural resource conservation. Graduates often work in roles related to agricultural sustainability, environmental consulting, and policy development

#### Examples of M.Ag. Programs:

- ❖ Iowa State University - College of Agriculture and Life Sciences:
  - Program: Master of Agriculture (M.Ag.) in Agricultural Education with an Environmental Science or Management Emphasis
  - Iowa State University offers a Master of Agriculture program with an emphasis in Agricultural Education, allowing students to specialize in Environmental Science or Management. This program is designed to prepare individuals for careers in agricultural education and outreach with a focus on environmental topics. Students can choose to concentrate on environmental science, management, or education.

❖ University of California, Davis - College of Agricultural and Environmental Sciences:

- Program: Master of Professional Studies (MPS) in Environmental Science and Management
- UC Davis offers a Master of Professional Studies program in Environmental Science and Management. While not an "Master of Agriculture" program, it integrates environmental science and management with a strong emphasis on sustainable agriculture and natural resource management. The program is designed for professionals seeking advanced knowledge and skills in addressing environmental and agricultural challenges.

### **Master of Marine Affairs (MMA)**

The MMA program is designed for individuals interested in marine and coastal resource management. It covers topics such as marine policy, fisheries management, marine conservation, and ocean governance. Graduates are prepared for careers in government agencies, non-profits, and research institutions focused on marine and coastal issues.

#### Examples of MMA Programs:

❖ University of Washington - School of Marine and Environmental Affairs:

- Program: Master of Marine Affairs (MMA)
- The University of Washington's School of Marine and Environmental Affairs offers an MMA program designed to prepare students for careers in marine policy and management. This program covers a wide range of topics, including ocean governance, marine resource management, marine conservation, and maritime law. Students have the opportunity to engage in research, internships, and hands-on projects related to marine affairs.

❖ University of Rhode Island - Graduate School of Oceanography:

- Program: Master of Marine Affairs (MMA)
- The University of Rhode Island's Graduate School of Oceanography offers an MMA program focused on marine affairs, policy, and management. This program provides students with a comprehensive understanding of marine science and policy issues, including marine resource management, coastal zone management, and environmental protection. It often includes practical experiences and fieldwork in marine environments.

### **Master of Science in Environmental Economics (MSEEcon)**

This program focuses on the economic aspects of environmental issues. Students learn how to analyze the economic impact of environmental policies, market-based environmental solutions, and the valuation of natural resources. Graduates often work in government agencies, consulting firms, and research organizations, helping to shape environmental policy and sustainability strategies.

#### Examples of MSEEcon Programs:

❖ Duke University - Nicholas School of the Environment:

- Program: Master of Environmental Management (MEM) with a Concentration in Environmental Economics and Policy
- Duke University's Nicholas School offers an MEM program with a concentration in Environmental Economics and Policy. This concentration focuses on the economic aspects of environmental issues, including natural resource management, environmental policy analysis, and sustainability economics. While it's not specifically called MSEEcon, it covers similar content areas.

❖ University of California, Berkeley - College of Natural Resources:

- Program: Master of Science (MS) in Environmental Economics and Policy

- UC Berkeley offers an MS program in Environmental Economics and Policy. This program combines economics with environmental studies to provide students with the knowledge and skills needed to analyze and address environmental challenges from an economic perspective. It emphasizes policy analysis, cost-benefit analysis, and environmental economics research.

### **Master of Energy and Environmental Management (MEEM)**

MEEM programs integrate energy and environmental management principles. Students explore topics such as renewable energy, energy efficiency, environmental regulations, and sustainable business practices. Graduates are well-prepared for careers in energy and environmental consulting, energy management, and sustainability leadership roles in various industries.

#### Examples of MEEM Programs:

- ❖ Colorado School of Mines - Division of Economics and Business:
  - Program: Master of Science in Energy Economics and Finance (MSEEF)
  - While not specifically titled MEEM, the Colorado School of Mines offers an MSEEF program that covers topics related to energy economics, finance, and management. This program provides students with the knowledge and skills needed to analyze energy markets, evaluate energy projects, and make strategic decisions in the energy sector. It also addresses environmental aspects of energy management.
- ❖ European University - Barcelona School of Management:
  - Program: Master of Energy and Environmental Management (MEEM)
  - European University's Barcelona School of Management offers a MEEM program that focuses on sustainable energy management and environmental stewardship. This program covers topics such as renewable energy, energy efficiency, environmental policies, and sustainability strategies. Students gain practical skills and knowledge to address energy and environmental challenges in various industries.

### **Master of Science in Water Resources Management (MSWRM)**

MSWRM programs focus on the management and conservation of water resources. Students learn about water policy, hydrology, water quality, and watershed management. Graduates often work in government agencies, water utilities, environmental consulting firms, and non-profit organizations, addressing water-related challenges.

#### Examples of MSWRM Programs:

- University of California, Riverside - Bourns College of Engineering:
  - Program: Master of Science in Environmental Sciences with a Concentration in Water Science, Policy, and Management (MSEnS)
  - The University of California, Riverside offers an MSEnS program with a concentration in Water Science, Policy, and Management. While it may not have the exact "MSWRM" title, this program emphasizes water resource management, policy analysis, and environmental science. Students gain a deep understanding of water-related issues and are prepared for careers in water resource management and environmental policy.
- University of Arizona - College of Agriculture and Life Sciences:
  - Program: Master of Science in Water, Society, and Policy (MS WSP)
  - The University of Arizona's College of Agriculture and Life Sciences offers an MS program in Water, Society, and Policy. While not named "MSWRM," this program focuses on water resource management, societal impacts, and policy considerations. It covers topics such as water governance, water economics, and water-related challenges in arid and semi-arid regions.

## **Master of Science in Geographic Information Systems (MSGIS)**

MSGIS programs emphasize the use of geographic information systems (GIS) technology to analyze and manage spatial data for environmental and planning purposes. Students gain expertise in GIS software, cartography, and spatial analysis. Graduates are in demand across various sectors, including environmental consulting, urban planning, natural resource management, and public health, where GIS plays a critical role in decision-making and analysis.

### Examples of MSGIS Programs:

- ❖ *University of California, Santa Barbara - Bren School of Environmental Science & Management:*
  - Program: Master of Science (MS) in Environmental Data Science (EDS)
  - While not specifically titled as "MS in GIS," the EDS program at UC Santa Barbara's Bren School is designed for individuals interested in advanced GIS and spatial data analysis. This program provides comprehensive training in geospatial technologies, data analysis, and environmental science. Students gain proficiency in GIS, remote sensing, and spatial modeling while addressing environmental and sustainability challenges.
- ❖ *North Carolina State University - Center for Geospatial Analytics:*
  - Program: Master of Geospatial Information Science and Technology (MGIST)
  - North Carolina State University offers an MGIST program that focuses on geospatial information science and technology, including GIS, remote sensing, and spatial analysis. This program is designed to equip students with advanced skills in geospatial data analysis, geospatial programming, and spatial visualization. It's suitable for those looking to advance their careers in GIS and related fields.