National Council for
Science and the Environment



Scope of Interdisciplinary Environmental, Sustainability, and Energy Baccalaureate and Graduate Education in the United States

September 2017

National Council for Science and the Environment

The National Council for Science and the Environment (NCSE) is a not-for-profit organization that works to improve the scientific basis for environmental decisionmaking.

NCSE specializes in programs that foster collaboration between the diverse institutions and individuals creating and using environmental and sustainability knowledge; including research, education, environmental, and business organizations, as well as all levels of government. NCSE works collectively with its community to strengthen the role and use of science and higher education in policy.

NCSE brings together individuals, institutions, and communities to advance environmental and sustainability science and education, working across three strategic areas:

- Research and Education
- Leadership and Community
- Policy and Decisionmaking

NCSE Membership

The backbone of NCSE's programmatic work is its institutional members—four-year and two-year colleges and universities that work collectively with NCSE to advance meaningful connections between science, education, and policy.

The NCSE University Affiliate Program engages universities and colleges across the country to provide them with new research and resources; create forums for inter-institutional collaborations to advance their professional, program, and institutional goals; and connect them with a broader community of researchers, funding organizations, and decision-makers. NCSE's University Affiliates are dedicated to advancing the field of interdisciplinary environmental and sustainability higher education and its role in environmental policy and decisionmaking.

As an exclusive benefit, NCSE's University Affiliate members receive complimentary access to the NCSE research data and report series. The research tracks trends in the evolving fields of interdisciplinary environmental, sustainability, and energy higher education through analysis of the scope, defining characteristics, administrative structures, and design of academic and research programs at U.S. colleges and universities.

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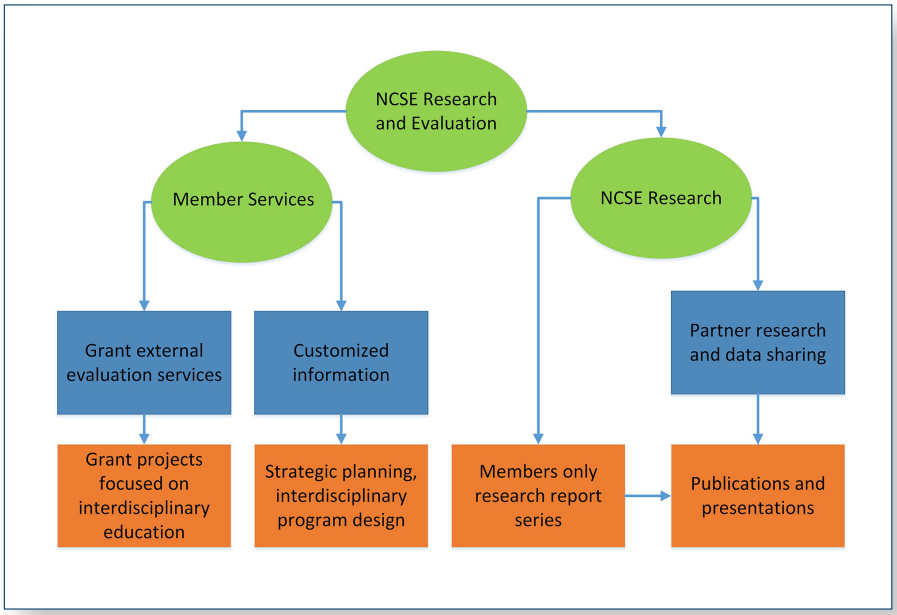
Introduction: Research and Evaluation at the National Council for Science and the Environment

The National Council for Science and the Environment (NCSE) serves as the premier research organization in the United States focused on advancing the evolving fields of interdisciplinary environmental, sustainability, and energy (IESE) higher education. NCSE's ongoing research programs document and analyze the scope, defining characteristics, administrative structures, and design of IESE academic and research programs at U.S. colleges and universities and track national trends in these innovative and rapidly changing fields.

NCSE members benefit from access to an exclusive series of research reports. These groundbreaking reports are highly valued by higher education administrators, federal government agencies, educators, researchers, policy makers, students, and others interested in IESE education and research. Members also benefit from research through customized member services that draw upon extensive expertise and national datasets.



NCSE research is also shared through peer-reviewed publications, including a special issue of the *Journal of Environmental Studies and Science on Negotiating Boundaries: Leadership of Interdisciplinary Environmental and Sustainability Programs* (June 2106) edited by the NCSE Director of Research and Evaluation and members of the NCSE Council of Environmental Deans and Directors.

NCSE's research is extended through our partnerships with federally funded grant projects focused on IESE education and research. NCSE provides external evaluation services for these projects and coordinates collaborations with NCSE academic leaders groups including the Council of Environmental Deans and Directors and the Community College Alliance for Sustainability Education.

Researchers at member institutions may also draw upon NCSE's extensive data for partner research projects focused on IESE education and research. Researchers sign an MOU agreement with NCSE that includes the production of partner reports to summarize the research findings for NCSE members. To learn more about this program, contact Dr. Shirley Vincent, Director of Research and Evaluation, at svincent@ncseglobal.org or 918-629-5143. Additional detail on NCSE's research and evaluation work can be found at https://www.ncseglobal.org/research.

Executive Summary

The National Council for Science and the Environment (NCSE) conducts periodic censuses to identify all interdisciplinary environmental, sustainability, and energy (IESE) baccalaureate and graduate programs at U.S. colleges and universities. These census data serve as foundational information on the target populations for our research, and provide NCSE Affiliate members and constituencies with crucial information on the scope of IESE education in the U.S. and current trends. The census findings are presented in a series of exclusive reports that provide an overview of IESE degree programs and their administrative homes, and reports that focus on specific subsets of data such as sustainability programs, or IESE research institutes and centers.[1] The 2012 census overview report was cited in the 2015 National Science Foundation report: *America's Future: Environmental Research and Education for a Thriving Century – A 10 Year Outlook*. The census reports support the work of academic leaders, federal government agencies, educators, researchers, policymakers, students, and others working to advance the IESE field.

The 2016 census project reviewed all U.S. four-year colleges and universities included in the 2015 Carnegie classification list. We reviewed all U.S. 1,690 four-year colleges and universities and 637 special focus institutions. This report summarizes the findings—the numbers and characteristics of IESE degree programs, the administrative homes for IESE degree programs, and the colleges and universities that offer them.

Key Findings

- The 2016 census documented continued growth vertically in the number of IESE degree programs as well as a strong horizontal presence through formal IESE specializations in diverse disciplinary and professional fields. These fields include engineering and technology, biology, health, geosciences, business and economics, geography, public policy/affairs/administration, architecture and planning, agriculture, social sciences and humanities, education, toxicology, tourism/recreation, and physics.

- The number of IESE degrees increased by 15% from 2012 to a total of 2,361 degrees offered by 872 higher education institutions (a 4% increase in the number of institutions offering IESE programs). The census also identified 2,222 degree programs in disciplines and professional fields with formal specializations in environment, sustainability, natural resources, and energy.

- One characteristic of IESE degree programs is that many are offered through programs that span traditional disciplinary departments or are interdisciplinary degree programs housed in disciplinary departments. Others are administratively located in their own IESE units—departments, divisions, schools, colleges, institutes, or centers. The 2016 census found that the proportion of IESE

[1] For example see these NCSE reports: *Interdisciplinary Environmental and Sustainability Education: Results from the 2012 Census of U.S. Four-Year Colleges and Universities* (2012), *Sustainability Education: Results from the 2012 Census of U.S. Four-Year Colleges and Universities* (2013), *Non-traditional and Broad Energy Education: Results from the 2012 Census of U.S. Four-Year Colleges and Universities* (2013), and *Interdisciplinary Environmental Education and Research: Institutes and Centers at Research Universities* (2014).

degree programs housed in their own IESE units rose from 41% in 2012 to 50% in 2016. This is significant because IESE degree programs administered by their own IESE units typically have more resources and autonomy than IESE degree programs that span or are located within traditional disciplinary units.

The number of interdisciplinary environmental, sustainability, and energy (IESE) degrees increased by 15% from 2012 to a total of 2,361 degrees offered by 872 higher education institutions in 2016.

- The census also documented a 40% increase in the number of IESE degree-granting units from 2012—an additional 99 departments (40% increase), 28 divisions/schools/colleges (52% increase), and 15 institutes and centers (29% increase).
- The top five types of IESE degrees (based on name) are environmental science(s) (33%), environmental studies (20%), natural resources (18%), sustainability (11%), and policy and management (7%). Many IESE degrees focus on a specific theme such as coastal systems, energy policy, or water resources; others combine environmental science(s), environmental studies, natural resources, or sustainability and another disciplinary area, such as business and environmental studies or engineering and environmental science.
- The highest levels of growth are found in four degree program types: sustainability (89%), energy (62%), coastal and marine systems (33%), and water resources/watershed management (16%).
- A new type of IESE degree program emerged between 2012 and 2016—programs in environmental and sustainability design. Environmental and sustainability design is an interdisciplinary field that prepares students to design sustainable products, buildings, neighborhoods, cities, and regions using approaches that blend technical, ecological, economic, social, cultural, aesthetic, and ethical concerns.

Methodology

NCSE has conducted three censuses—in 2008, 2012, and 2016—of U.S. baccalaureate and graduate programs in environment and sustainability.

The censuses are conducted by reviewing the websites and online catalogs of all four-year colleges using the comprehensive Carnegie classification list (http://carnegieclassifications.iu.edu/).[2] The 2008 census included all public and not-for-profit doctorate granting universities, master's colleges and universities, baccalaureate colleges, and tribal colleges.[3] The 2012 census added for-profit schools in these categories and baccalaureate/associate's colleges.[4] The 2016 census did not include for-profit schools because they were found in 2012 to have very few IESE programs, but it added special focus schools to identify programs in environmental health, law, engineering, design, etc. The 2016 census was conducted by teams of student interns from June 2016-February 2017. The teams were comprised of two students who checked their own work internally as well as the work of other student teams so that the data collected was reviewed by four to six individuals. Ms. Rao supervised and managed the data collection process. The raw data was reviewed, coded, and analyzed by Dr. Vincent.

Purpose and targeted programs. The primary purposes of the NCSE censuses are to provide foundational information for our research and information on the scope of IESE education and current trends.[5] The target population for the first two censuses included baccalaureate and graduate programs with an explicit broad interdisciplinary approach (include both natural and social sciences at a minimum).[6] The first two censuses excluded specialized natural resources programs in range science

[2] The Carnegie Classification™ has been the leading framework for recognizing and describing institutional diversity in U.S. higher education for the past four and a half decades. Starting in 1970, the Carnegie Commission on Higher Education developed a classification of colleges and universities to support its program of research and policy analysis. Derived from empirical data on colleges and universities, the Carnegie Classification was originally published in 1973 and subsequently updated in 1976, 1987, 1994, 2000, 2005, 2010, and 2015 to reflect changes among colleges and universities. This framework has been widely used in the study of higher education, both as a way to represent and control for institutional differences, and also in the design of research studies to ensure adequate representation of sampled institutions, students, or faculty. See http://carnegieclassifications.iu.edu/ for more information.

[3] *Interdisciplinary Environmental Education on the Nation's Campuses: Elements of Field Identity and Curriculum Design. National Council for Science and the Environment. 2010.*

[4] *Interdisciplinary Environmental and Sustainability Education: Results from the 2012 Census of U.S. Four Year Colleges and Universities. National Council for Science and the Environment. 2012.* A community college census was conducted in 2014. The results are documented in: *Interdisciplinary Environmental and Sustainability Education and Research: Results from the Census of Community Colleges. National Council for Science and the Environment. 2014.*

[5] The size and characteristics of the target population are factors that allowed us to ensure that our survey samples are representative of the population as a whole and large enough for robust statistical validity. Representativeness measures included institution Carnegie class, census division, and control (public or private not-for-profit), and degree type (name) and level (bachelor's, master's, doctoral).

[6] Degree programs focused on environment, sustainability and energy with an interdisciplinary approach that includes both the natural and social sciences. This includes programs in environmental studies, environmental science(s), sustainability, energy, broadly focused natural resources programs and programs with other names focused on the environment/sustainability such as sustainability management, energy science and policy, environmental policy, watershed management, and marine science and policy.

and management, forestry, fisheries, and wildlife and degrees in other disciplines and professional fields with IESE specializations.

The target population for 2016 included all baccalaureate and graduate degree programs in environment, sustainability, natural resources (including specialized programs), energy, and other interdisciplinary programs focused on the environment (such as marine sciences, earth systems science and water resources and watershed management). It also included disciplinary degrees and degrees in professional fields with formal IESE specializations (e.g., a degree in public administration with a specialization in environmental policy and management or a degree in biological sciences with a specialization in environmental biology).

Carnegie classifications. There were significant changes in the Carnegie classification system between 2010 and 2015, including changes in the number of institutions in each classification category and the addition of another classification category for baccalaureate/associate's colleges (Table 1). As a result, we cannot make direct comparisons between the 2012 and 2016 census data regarding Carnegie classifications.

The total number of baccalaureate and graduate degree-granting institutions included in the 2016 census is 1,690 (88 more schools than in 2012) plus 637 special focus institutions for a total of 2,327 institutions.

The primary purposes of the NCSE censuses are to provide foundational information for our research and information on the scope of IESE education and current trends.

Limitations. The degree programs included in the 2016 census were identified by the degree and specialization names and not by curricular content. We may have been unable to identify some programs that focus on environment, sustainability, natural resources, or energy. Newly established programs and recent changes to existing programs may also not be represented.

The emergence of new types of degree programs and the expansion of IESE-focused degree options across campuses make it challenging to determine whether degrees should be counted as IESE degrees or degrees in other disciplines and professional fields with IESE specializations. For example, should a degree named environmental design offered through a school of architecture and design be counted as an interdisciplinary degree if it's not a degree in architecture, landscape design, or interior design? Is a degree named environmental sciences and engineering offered through an engineering department primarily an engineering degree or an IESE degree? For reporting purposes, we counted degrees as IESE programs if they were not explicitly a degree in another discipline or professional field. For example, a degree named environmental studies and geography is counted as an IESE degree while a degree in geography with a specialization in environmental studies is counted as a disciplinary degree with an IESE specialization.

Table 1. Carnegie classifications included in 2016 census

Carnegie Code	Basic Carnegie Classification	2010 Carnegie Data		2015 Carnegie Data	
15	Doctoral Universities: Highest Research Activity	108		116	
16	Doctoral Universities: Higher Research Activity	98		106	
17	Doctoral Universities: Moderate Research Activity	75		93	
Total Doctoral Universities		281		315	
18	Master's Colleges and Universities: Large Programs	381		371	
19	Master's Colleges and Universities: Medium Programs	165		191	
20	Master's Colleges and Universities: Small Programs	96		121	
Total Master's Colleges and Universities		642		683	
21	Baccalaureate Colleges: Arts and Sciences	266		244	
22	Baccalaureate Colleges: Diverse Fields	323		262	
23	Baccalaureate/Associate's Colleges: Mixed Baccalaureate/Associate's	58		79	
14	Baccalaureate/Associate's Colleges: Associate's Dominant (new in 2015)	-		72	
Total Baccalaureate Colleges		647		657	
33	Tribal Colleges	32		35	
Total Four-Year		1,602		1,690	
24	Special Focus Four-Year: Faith-Related Institutions	298		304	
25	Special Focus Four-Year: Medical Schools and Centers	50		50	
26	Special Focus Four-Year: Other Health Professions Schools	162		134	
27	Special Focus Four-Year: Engineering Schools	6		5	
28	Special Focus Four-Year: Other Technology-Related Schools	3		4	
29	Special Focus Four-Year: Business and Management Schools	20		26	
30	Special Focus Four-Year: Arts, Music and Design Schools	60		59	
31	Special Focus Four-Year: Law Schools	29		29	
32	Special Focus Four-Year: Other Special Focus Institutions	16		26	
Total Special Focus Four-Year		**644**		**637**	
Special Designations		**Four- Year**	**Special Focus**	**Four- Year**	**Special Focus**
Historically Black College and Universities		82	5	82	7
Hispanic-serving Institutions		65	5	112	15
Minority-serving Institutions		168	23	309	31
Women's Colleges		45	1	40	1
Land-grant Institutions		103	-	104	-

Scope of Environmental, Sustainability, and Energy Education in the United States

The number of institutions and administrative units offering IESE degrees has continued to grow, although not as dramatically as the expansion seen between 2008 and 2012. The 2016 census identified 872 higher education institutions (4% increase), 1,361 IESE degree-granting administrative units (18% increase), and 2,361 IESE degrees (27% increase). Part of the increase in degrees is due to the inclusion of specialized natural resources degree programs in range science and management, forestry, fisheries, and wildlife that were not included in 2012. The increase in the number of IESE degree programs is 15% if these programs are not included.

We also identified 2,222 degrees in other disciplines/professional fields with IESE specializations. An additional 1,231 administrative units and an additional 212 institutions offer disciplinary degrees with IESE concentrations, but not IESE degrees. Overall, 52% of all four-year colleges and universities (excluding special focus schools) offer IESE degrees with the proportion by state varying from 21% to 100% (Figure 1; Table 2). Another 12% offer degrees with IESE specializations.

Figure 1. Proportion of U.S. four-year higher education institutions offering IESE degrees

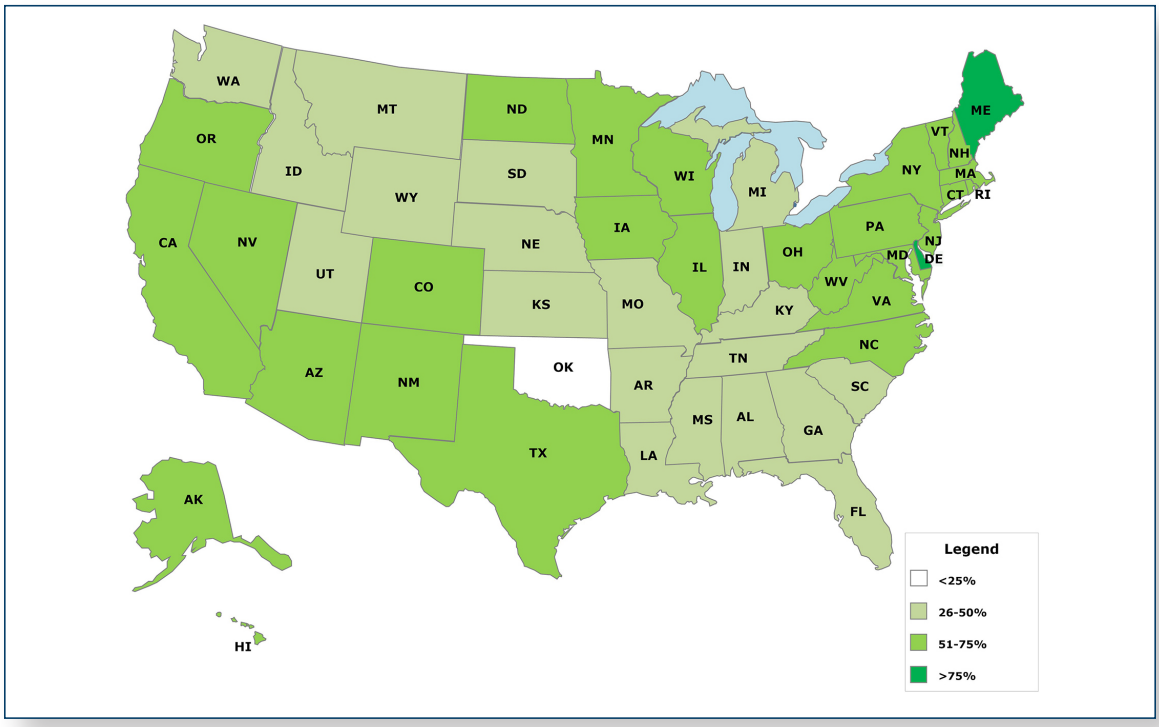


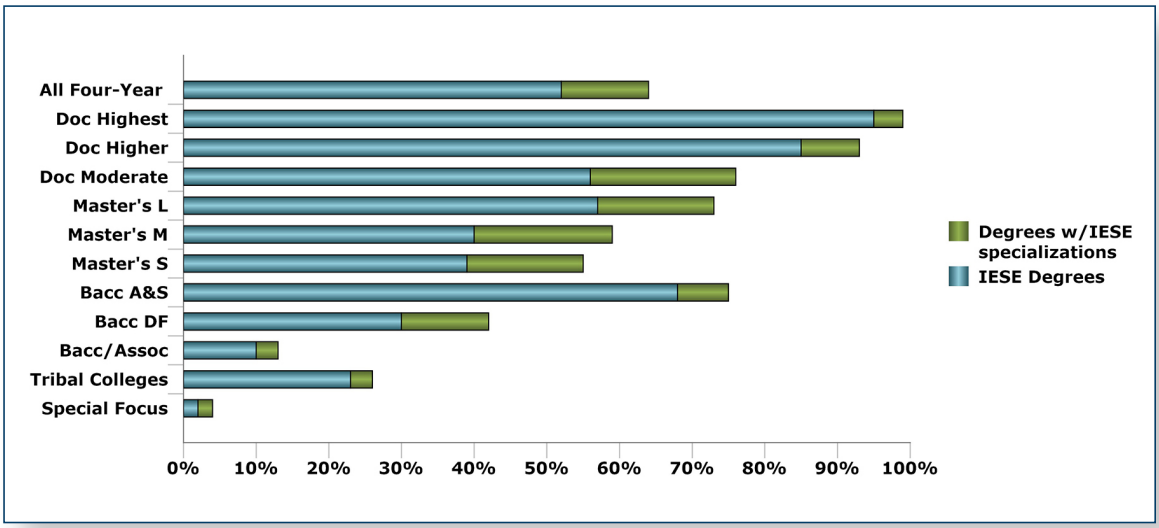
Table 2. U.S. institutions with IESE degree-granting programs by state

State	Number of IESE Degree-Granting Institutions	Proportion of all Four-Year Institutions	State	Number of IESE Degree-Granting Institutions	Proportion of all Four-Year Institutions
Alabama	14/28	50%	Montana	7/16	44%
Alaska	3/5	60%	North Carolina	30/51	59%
Arizona	8/14	57%	North Dakota	7/14	57%
Arkansas	7/21	330%	Nebraska	6/20	30%
California	63/101	62%	New Hampshire	9/15	60%
Colorado	12/22	55%	New Jersey	19/28	64%
Connecticut	11/21	52%	New Mexico	8/13	62%
Delaware	4/4	100%	Nevada	5/7	71%
District of Columbia	5/8	63%	New York	67/123	56%
Florida	29/74	41%	Ohio	37/76	50%
Georgia	18/54	33%	Oklahoma	7/28	21%
Hawaii	6/9	67%	Oregon	13/20	65%
Idaho	4/8	50%	Pennsylvania	60/117	51%
Illinois	35/56	63%	Rhode Island	5/9	67%
Indiana	21/44	48%	South Carolina	11/32	34%
Iowa	18/27	67%	South Dakota	6/12	50%
Kansas	8/27	30%	Tennessee	12/37	32%
Kentucky	13/27	48%	Texas	41/77	52%
Louisiana	7/21	33%	Utah	5/14	36%
Maine	15/18	83%	Vermont	14/20	70%
Maryland	17/25	68%	Virginia	25/40	63%
Massachusetts	41/61	67%	Washington	20/38	53%
Michigan	24/56	43%	West Virginia	9/19	47%
Minnesota	23/35	66%	Wisconsin	23/38	61%
Mississippi	4/15	27%	Wyoming	1/2	50%
Missouri	15/40	38%			
			TOTAL	***872**	****52%**

*Excludes for-profit institutions. **Excludes special focus institutions.

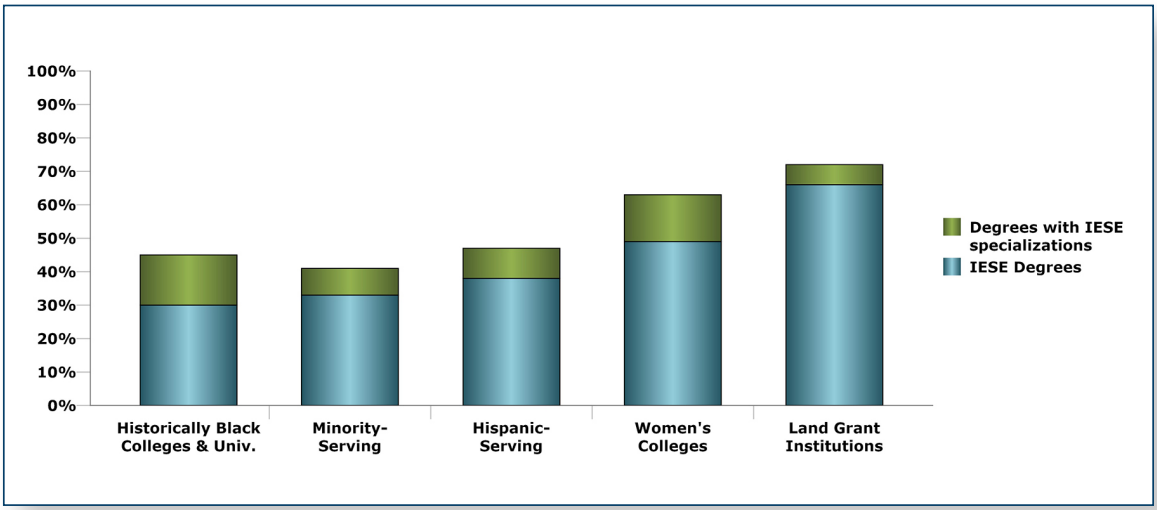
The total proportion of four-year higher education institutions offering IESE degrees is about the same as in 2012—52% compared with 51%—but the numbers aren't directly comparable because the numbers in each Carnegie classification category changed (Table 1). As in past censuses, the highest proportions are found in two doctoral universities categories: doctoral universities–highest research activity and doctoral universities–higher research activity (Figure 2).

Figure 2. Proportion of U.S. four-year higher education institutions offering IESE degrees and specializations by basic Carnegie class type



The proportion of schools in special designation categories offering IESE degrees has also remained about the same as in 2012 (Figure 3); but again, the numbers aren't directly comparable because of changes in the number of schools in these categories. All three minority-serving institution categories have proportions below the overall average for all four-year colleges and universities. Women's colleges have average proportions and land grant institutions higher proportions (many are doctoral universities).

Figure 3. Proportion of special designation institutions offering IESE degrees and specializations



Interdisciplinary Environmental, Sustainability, and Energy Degree Programs

Types of IESE Degrees

The census identified 2,361 IESE degrees. Approximately two thirds (64%) are bachelor's degrees, 26% are master's degrees, and 10% doctoral degrees.

- Baccalaureate colleges offer 16% of all IESE degrees—24% of undergraduate and 2% of master's degrees.
- Master's colleges and universities offer 29% of all IESE degrees—35% of undergraduate, 23% of master's, and 4% of doctoral degrees.
- Doctoral universities offer 54% of all IESE degrees—40% of undergraduate, 74% of master's, and 95% of doctoral degrees.
- The remaining 1% are offered by tribal colleges and special-focus schools—1% each of undergraduate, master's, and doctoral degrees.

The most common types of IESE degree programs fall into five name-based categories: environmental science(s), environmental studies, natural resources, sustainability, and policy and management (Figure 4; Table 3). Many degree programs fall into two or more name type categories, such as degree programs named environmental and sustainability sciences or environmental science, policy, and management.

- A third of all IESE degree programs (33%) include the term environmental science(s). This name group has the largest proportions of IESE undergraduate programs (36%) and doctoral programs (36%) and is tied with the natural resources group in the proportion of master's programs (25%).
- A fifth (20%) of all IESE degree programs include the term environmental studies. Degrees in environmental studies are awarded primarily at the baccalaureate level (28%); only 6% of master's degrees and 2% of doctoral degrees include the term environmental studies.
- Natural resources programs make up 18% of all IESE programs but represent large proportions of IESE master's (25%) and doctoral programs (33%.)
- Programs with sustainability in their names comprise the fourth largest group—11% overall—but represent a higher proportion of IESE master's programs (16%).
- Programs that include policy and management are the fifth largest group and make up 7% of all IESE programs.

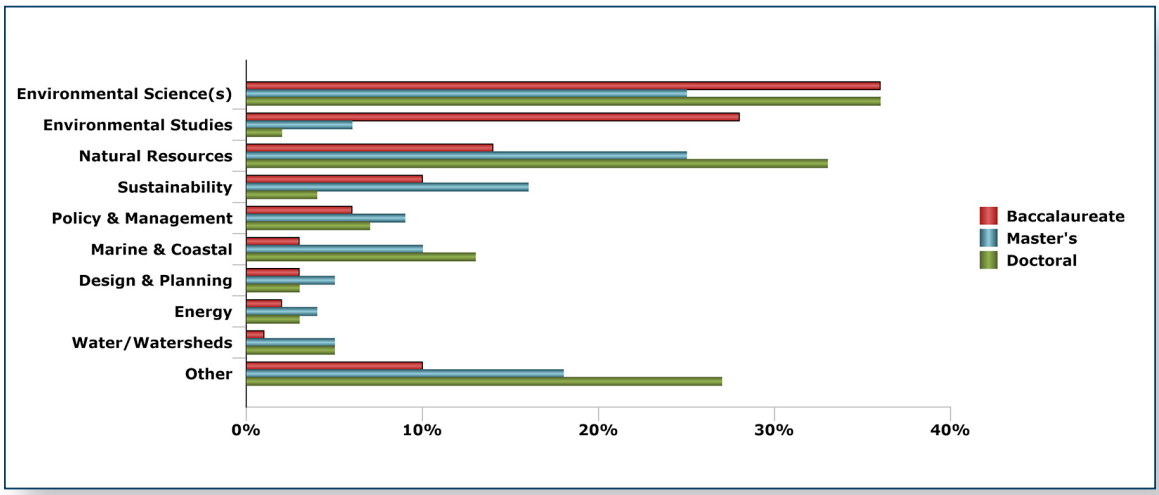
The number of IESE degree programs in most name type categories remained about the same or increased slightly from 2012 with the exception of a few types (Table 3). These include program types that appeared between 2008 and 2012 in sustainability (89% increase) and energy (62% increase), as well as programs that focus on marine and coastal systems (33% increase) and water/watersheds (16% increase). Another new type of program emerged between 2012 and 2016—programs named environmental or sustainability design. These five types of emerging programs comprise smaller proportions of

all IESE degrees, but represent a significant proportion of graduate degrees—40% of all IESE master's and 31% of all IESE doctoral programs.

Other name types and focus areas vary widely and include:

- BS/MS Agricultural and Environmental Systems (North Carolina A&T University);
- BS Business and Environmental Studies (Columbia University);
- MS Climate Science and Policy (Bard College);
- MS Environmental Analysis and Decision-Making (Rice University);
- BS Earth Systems (Stanford University);
- PhD Environmental Dynamics (Arkansas State University);
- MS/PhD Environmental Engineering, Sustainability and Science (Carnegie Mellon University);
- BA Environmental Outreach and Interpretation (Carroll College);
- BA/BS The Environment (University of Michigan-Ann Arbor);
- BS Society and Environment (University of California-Berkeley).

Figure 4. IESE degrees by name type and level: proportions by type



Trends in Program Growth

The census findings include a trend toward more IESE graduate programs; the proportion of graduate programs as a proportion of all IESE programs increased 4% from the 2012 census—master's degrees by 2% and doctoral degrees by 2%.

The number of doctoral degrees had the highest rate of growth, 50%, compared with 38% growth for master's degrees and 20% growth in bachelor degrees. There has also been an increase of 24% in the number of master's programs that have received a Professional Science Master's designation. Professional Science Master's programs consist of two years of academic training in an emerging or interdis-

ciplinary area, along with a professional component that may include internships and "cross-training" in workplace skills, such as business, communications, and regulatory affairs.[7]

The census findings also reveal a continuing trend toward more degree programs focused on specific themes (problem-solving domains). While the numbers of all types of IESE degree programs have increased, the proportions named environmental science(s) and studies have declined while other types of programs have increased.

A third trend is the continuing emergence of new types of bachelor degree designations (an increase of 200%). Examples include Bachelor of Applied Science: Environmental Policy and Management (University of South Florida), Bachelor of Applied Studies: Environmental Policy Studies (University of Wisconsin-Green Bay), Bachelor of Professional Studies in Science, Mathematics and Technology: Environmental Studies (SUNY-Empire State) Bachelor of Integrated Studies: Sustainability, Society and Resource Management (Pittsburgh State University).

Table 3. IESE degree program name types

Degree Program Name Category	Bachelor's N=1516	Master's N=609	PhD N=236	Proportion* N=2361
Environmental Science(s)	549	154	85	33%
Environmental Studies (including programs with names such as The Environment, Environmental Dynamics, Environment and Society, etc.)	428	44	8	20%
Natural Resources	205	153	78	18%
Sustainability	159	97	10	11%
Policy/Management	85	52	16	7%
Marine/Coastal	53	58	30	6%
Geosciences & Environmental Science(s)/Studies/Sustainability	58	22	22	4%
Environmental/ Sustainability Design & Planning	52	31	6	4%
Cities/Communities	32	32	5	3%
Engineering/Technology & Environmental Sciences	18	26	20	3%
Energy	34	31	2	2%
Water/Watershed Management	14	30	11	2%
Agriculture & Environmental Science(s)/Studies/Sustainability	20	12	6	2%
Social Sciences/Humanities in Environment/Sustainability	16	12	4	1%
Global/International	12	13	0	1%
Analysis/Assessment/Informatics	10	9	2	<1%
Biology & Environmental Science(s)/Studies/Sustainability	7	7	3	<1%
Climate	5	9	2	<1%
Business & Environmental Science(s)/Studies/Sustainability	8	2	1	<1%
Geography & Environmental Science(s)/Studies/Sustainability	6	3	0	<1%

*Proportions will not add to 100% since some degree programs fall within more than one name classification.

[7] For more information see sciencemasters.com.

Sustainability Program Types

Sustainability degree programs have increased rapidly since the first program was established at Arizona State University in 2006. Only 13 programs in sustainability were identified in 2008. Today there are 266. The census found that sustainability programs have a variety of names. The most prevalent are programs named sustainability and sustainable management, and programs focused on environmental sustainability and sustainable development (Table 4). New types of programs emerged between 2012 and 2016—including programs focused on sustainable communities/cities, design and the built environment, sustainable natural resources and conservation, sustainable energy, leadership for sustainability, and social innovation and change for sustainability.

Table 4. Sustainability degree program name types

Sustainability Degree Names	Bachelor's N=159	Master's N=697	PhD N=10	Proportion* N=266
Sustainability	27	15	3	17%
Sustainable Management	13	15	0	11%
Environmental Sustainability	22	4	1	10%
Sustainability & Environmental Studies	18	4	0	9%
Sustainable Development	12	12	1	9%
Community/Urban Sustainability	13	10	2	9%
Sustainability Studies	18	4	0	8%
Environmental/Sustainability Design and Built Environment	8	12	1	8%
Natural Resources/Ecology/Conservation	8	5	0	5%
Sustainability & Energy	7	4	0	5%
International/Global	4	6	0	4%
Engineering & Technology	6	2	2	4%
Leadership	0	8	0	3%
Social Innovation/Change	4	4	0	3%
Sustainability Science	5	3	0	3%
Sustainability & Environmental Science(s)	5	0	0	2%
Policy	2	2	0	2%
Coastal/Water	1	1	0	<1%

*Proportions will not add to 100% since some degree programs fall within more than one name classification.

Degree Specializations

Many IESE degree programs offer specialization options. Specialization options are most common for undergraduate programs and in professional (Master of) master's degrees; but a number of graduate programs also offer options that reflect the expertise of their faculty and the mission and geographic locations of their institutions (Table 5). From 2012 to 2016 the proportion of graduate programs with specializations has increased for all types of graduate degrees with especially dramatic increases in

MA programs (2% to 12%), professional (Master of) master's programs (3% to 24%), and doctoral programs (9% to 19%). MS programs increased from 12% to 19% and professional science master's programs from 3% to 9%. In contrast, the proportion of IESE undergraduate programs with specialization options decreased for BA (26% to 23%) and BS programs (49% to 31%); 15% of other types of bachelor degrees offer specializations.

Examples include:

- Macalester College offers the highest number of specializations. It offers a BA in Environmental Studies with eighteen specializations options in either a disciplinary area (Biology, Chemistry, Economics, Geography, Geology, History, Physics, Anthropology, Philosophy, Political Science) or an interdisciplinary area (Climate Science and Policy, Community and Global Health, Environmental Economics and Policy, Environmental Justice, Environmental Science, Environmental Thought and Values, International Environment and Development, Sustainable Design).

- The University of Arizona offers a BS degree in Natural Resources with six specializations in Conservation Biology; Ecology, Management and Restoration of Rangelands; Fisheries Conservation and Management; Global Change Ecology and Management; Watershed Hydrology and Management; and Wildlife Conservation and Management.

- The Duke University Nicholas School of the Environment offers the Master of Environmental Management degree with eight specializations in Business and Environment, Coastal Environmental Management, Energy and Environment, Ecotoxicology and Environmental Health, Environmental Economics and Policy, Ecosystems Science and Conservation, Global Environmental Change, and Water Resources Management. Students can also earn a Master of Environmental Management online.

- The Bren School of Environmental Science and Management at the University of California-Santa Barbara offers the Master of Environmental Science and Management with seven specializations in Coastal Marine Resources Management, Conservation Planning, Corporate Environmental Management, Economics and Politics of the Environment, Energy and Climate, Pollution Prevention and Remediation, and Water Resources Management. Students can combine their specialization with a special focus on Eco-Entrepreneurship (Eco-E), a joint initiative between the Bren School and the Technology Management Program of the College of Engineering. Eco-E students pursue additional coursework and activities that provide them with skills and support to launch new ventures, products, and technologies that address society's environmental and resource problems.

- The Environmental Sciences Graduate Program at Oregon State University offers a PhD in Environmental Science with seven specialization options in Biogeochemistry, Ecology, Environmental Education, Natural Resources, Quantitative Analysis, Social Science, and Water Resources.

A number of programs allow students to design their own specializations to match their specific goals and interests. Examples include the Program in the Environment at the University of Michigan-Ann Arbor, the Department of Environmental Studies at Dickinson College, and the Environmental Science Graduate Program at Oklahoma State University.

Table 5. Number of formal specializations by degree type

Degree Type	Max #	Mean #	Proportion of Programs
Bachelor of Arts (N=546)	18	4	23%
Bachelor of Science (N=943)	11	4	31%
Other Bachelor's (N=27)	7	4	15%
Master of Arts (N=69)	9	4	12%
Master of Science (N=404)	12	5	19%
Other Master's (N=90)	8	5	24%
Professional Science Master's (N=46)	7	5	9%
Doctor of Philosophy (N=236)	12	4	19%

Secondary Majors

A few IESE degrees (1%) require a second major in another discipline or professional field. Examples include:

- BA/BS Environmental and Sustainability Studies (Western Michigan University)
- BA/BS Environmental Studies (Tufts University)
- BS Sustainability (University of Miami-Oxford)
- BA/BS Environmental Policy (Carnegie Mellon University)
- MA/MS Environment (Duke University)
- MA/MS/PhD Human Dimensions of Natural Resources and the Environment (University of Pennsylvania)

Online Programs

A small number of IESE programs can be earned entirely online (2%). Examples include:

- BS/MS Sustainability Management (University of Wisconsin Distance Learning Center—a consortium program shared by UW–Extension, UW–Parkside, UW-Oshkosh, UW-River Falls, UW-Stout, UW-Superior)
- BS/Professional Science Master's Environmental Management (University of Maryland)
- Master of Environmental Studies (University of Pennsylvania)
- Master of Sustainability Leadership (Arizona State University)
- MS Natural Resources and Environmental Sciences (University of Illinois-Urbana-Champaign)
- MS Environmental Sciences (University of Houston)

International Partnerships

A few institutions have formal partnerships with universities or organizations in other countries where students earn degree credits at the foreign institution. Examples include:

- MS in Environmental Management and Sustainability jointly offered by James Madison University and the University of Malta; this is a 12-month accelerated program that earns dual degrees at each institution
- MS in Science in Nature, Policy, and the Environment jointly offered by Carnegie Mellon University and University of Oxford
- Professional Science Master's in Environmental Management and Sustainability jointly offered by Saint Edward's University and Université Catholique de l'Ouest in Angers, France
- MS Conservation Leadership program offered by a partnership of Colorado State University and El Colegio de la Frontera Sur (ECOSUR) in Mexico
- Master of Environmental Policy offered in China by a partnership between the Duke University Nicholas School of Environment, Sanford School of Public Policy, and Duke Kunshan University

Five-Year Accelerated Dual Bachelor/Master's Programs

A number of programs (5%) offer accelerated five-year bachelor's/master's programs; sometimes in partnership with other institutions. The Nicholas School of the Environment at Duke University has numerous participants in its cooperative college programs with other institutions where students earn a bachelor's degree from their home institution and a Master of Environmental Management or a Master of Forestry from Duke. Other examples include:

- BS Environmental and Sustainability Studies/Professional Science Master's Environmental Science (University of Utah)
- BS in Environmental and Urban Studies/MS in Climate Science and Policy or MS in Environmental Science and Policy (Bard College)
- BA in Environmental Studies (Middlebury College)/MA in International Environmental Policy (Monterey Institute of International Studies)
- BS Natural Resources (University of Vermont)/Master of Environmental Law and Policy (Vermont Law School)
- Bachelor of Liberal Studies: Earth, Environment and Global Sustainability/Master of Laws in Environmental Law (Bentley University)

Dual Degrees

Several programs (2%) offer formal dual degree options, also sometimes in partnership with other institutions. Examples include:

- BA Environmental Studies/dual majors with Economics, Environmental Geology, History, International Affairs, Philosophy, and Political Science (Northeastern University)

- BS in Environmental Science from (University of Wisconsin-Green Bay)/BS in Environmental Engineering from University of Wisconsin-Milwaukee
- MA in Sustainable International Development/dual major options: Master of Business Administration in Nonprofit Management, MA in Women's and Gender Studies, MA in Conflict Resolution and Coexistence, MS in Global Health Policy and Management (Brandeis University), or Juris Doctorate or Master of Laws (Northeastern University)
- Master of Marine Affairs (University of Rhode Island)/Juris Doctorate Marine Affairs (Roger Williams University School of Law)

Administrative Homes for IESE Degree Programs

Unlike most traditional disciplinary and professional field degree programs, IESE degrees are offered in a variety of administrative locations ranging from IESE degree programs offered by traditional disciplinary departments; IESE programs that span disciplinary units (from two departments to units across the university); IESE departments, divisions, schools, colleges, and degree-granting institutes/centers; and IESE degree programs operated by a consortium of institutions.

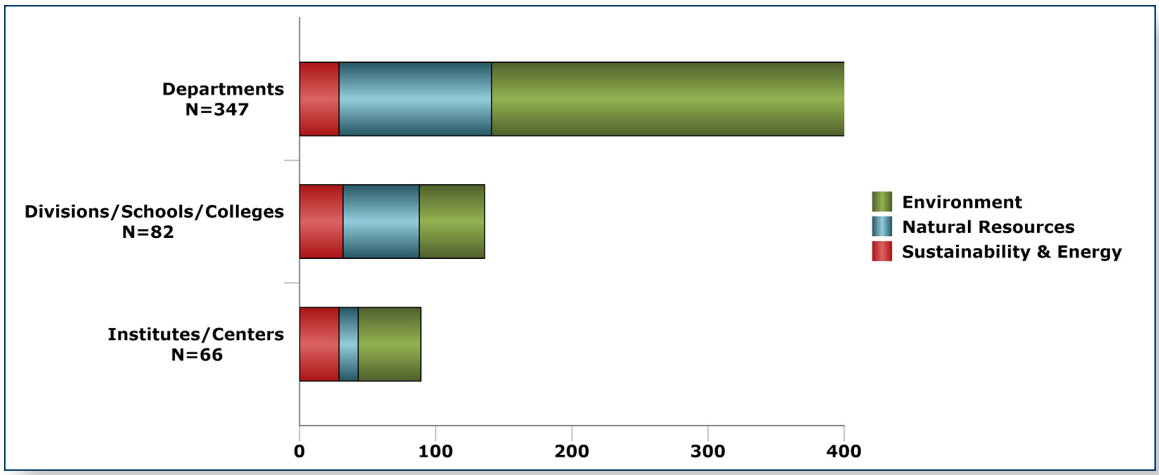
Administrative homes for IESE degree programs can be viewed in two ways: 1) the number of IESE units as a proportion of all administrative homes for IESE degrees, and 2) the proportion of IESE degrees offered through IESE units and programs versus traditional disciplinary units and programs.

A total of 1,361 programs, departments, divisions/colleges/schools, and institutes /centers serve as the administrative homes for IESE degrees. Of these, 68% (931) are interdisciplinary IESE units and programs. The remainder are traditional units that offer IESE degrees in addition to disciplinary degrees.

Of the IESE units, 38% are departments, 9% divisions/schools or colleges, and 7% degree-granting institutes/centers; this is an increase of 21% from 2012. The remaining 46% are IESE programs that span disciplinary units (from a few departments, to a college, to multiple colleges, to the entire university). At smaller schools IESE programs are similar to other degree programs since there is only one college without subunits.

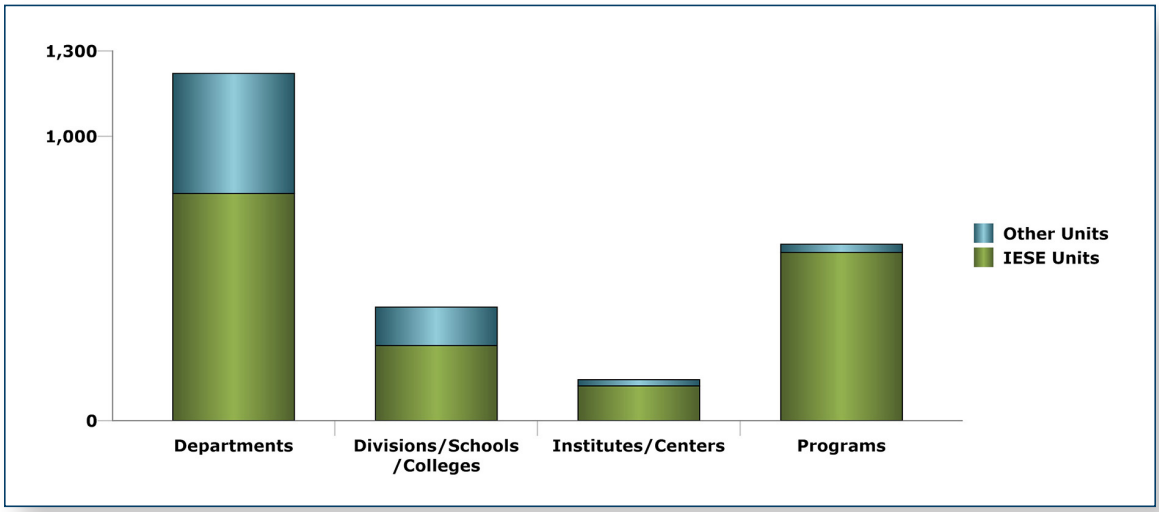
The number of IESE departments, divisions/schools/colleges and institutes and centers that serve as the administrative homes for IESE degrees increased substantially from 2012 (Figure 5). The census identified an additional 99 IESE departments (40% increase), 28 IESE divisions/schools/colleges (52% increase), and 15 IESE institutes and centers (29% increase). Some of these are natural resources units that offer degrees in range science and management, forestry, fisheries, and wildlife and were not included in the 2012 census.

Figure 5. IESE departments, divisions, school/colleges and institutes/centers



Most of the 2,361 IESE degrees (74%) are administratively located in IESE programs or units (Figure 6). Half (50%) are administered by interdisciplinary units—34% in IESE departments; 11% in IESE divisions/schools/colleges; and 5% in degree-granting IESE institutes/centers—an increase of 9% from 2012. Another 25% are administered by IESE programs. The remaining 25% are administered by traditional units—disciplinary departments (18%), general or disciplinary divisions/schools/colleges (6%), non-IESE institutes/centers (1%), and a few non-IESE programs (1%).

Figure 6. Administrative homes for IESE degree programs



A few IESE units span state systems. Examples include:

- School for Marine Science and Technology – University of Massachusetts system
- Bren School for Environmental Science and Management – University of California system
- The Center for Environmental Science/Marine-Estuarine Environmental Sciences Program – University of Maryland system

And a few degree programs are jointly operated by multi-institution consortiums:

- BS/MS in Sustainable Management degrees are offered by a University of Wisconsin Consortium (UW–Extension, UW–Green Bay, UW-Oshkosh, UW-Oshkosh, UW-River Falls, UW-Stout, UW-Parkside, UW-Superior)
- BA in Environmental Studies, BA in Environmental Science and Policy, and BS in Architecture and Environmental Design degrees are offered through the Five Colleges Consortium (Amherst College, Hampshire College, Mount Holyoke College, Smith College, University of Massachusetts-Amherst)
- BA degrees in Environmental Analysis and in Environment, Economics, and Politics are offered by the Claremont University Consortium (Claremont McKenna College, Harvey Mudd College, Pitzer College, Pomona College, Scripps College).
- BA/BS in Environmental Science and BA in Environmental Studies degrees are offered by the Colleges of the Fenway Consortium (Emmanuel College, Simmons College, Wheelock College).

Appendix A lists all IESE departments, divisions, schools, colleges, institutes and centers by institutional Carnegie classification. The list includes 130 IESE divisions, schools and colleges that have environment, sustainability, natural resources, water, or energy in their name, but not all are the primary administrative homes for IESE degree programs (82 of these are the primary administrative homes for IESE degrees as discussed above).

Disciplinary Degree Programs with Formal Environmental and Sustainability Specializations

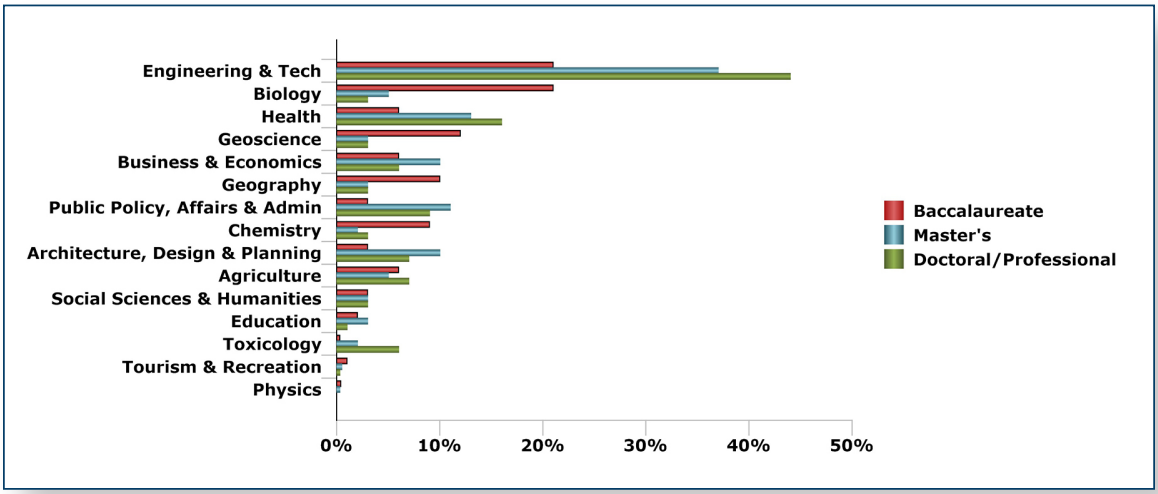
The 2016 census identified 2,222 degree programs in 15 disciplinary and professional fields with formal IESE specializations (also termed concentrations or tracks: Table 6; Figure 7). The proportions by level are 53% baccalaureate, 34% master's, and 13% doctoral/professional. Environmental engineering, biology, and health form the largest groups. The term environmental is the most commonly used IESE specialization term. Sustainability is second most prevalent at 11%. Natural resources is included in 8%, environmental sciences in 8%, water/watersheds in 6%, environmental studies in 2%, and marine and coastal in 1%. For several of these areas, the number of graduate degrees is larger than the number of undergraduate degrees, including 1) engineering and technology, 2) health, 3) business and economics, 4) public policy, affairs, and administration, 5) architecture, design, and planning, and 6) toxicology.

Table 6. Disciplinary degree programs with IESE specializations name types

Disciplines and Professional Fields	Bachelor's N=1182	Master's N=754	PhD N=286	Proportion* N=2222
Engineering & Technology	251	282	127	30%
Biology	253	34	10	13%
Health	71	95	46	10%
Geosciences	143	26	10	8%
Business & Economics	70	77	18	7%
Geography	116	23	10	7%
Public Policy, Administration, Affairs	31	84	25	6%
Chemistry	102	13	9	6%
Architecture/Design & Planning	31	73	19	6%
Agriculture	66	34	20	5%
Social Sciences & Humanities	31	22	9	3%
Education	25	22	2	2%
Toxicology	3	14	16	1%
Tourism and Recreation	12	14	1	1%
Physics	5	2	0	<1%

*Proportions will not add to 100% due to rounding.

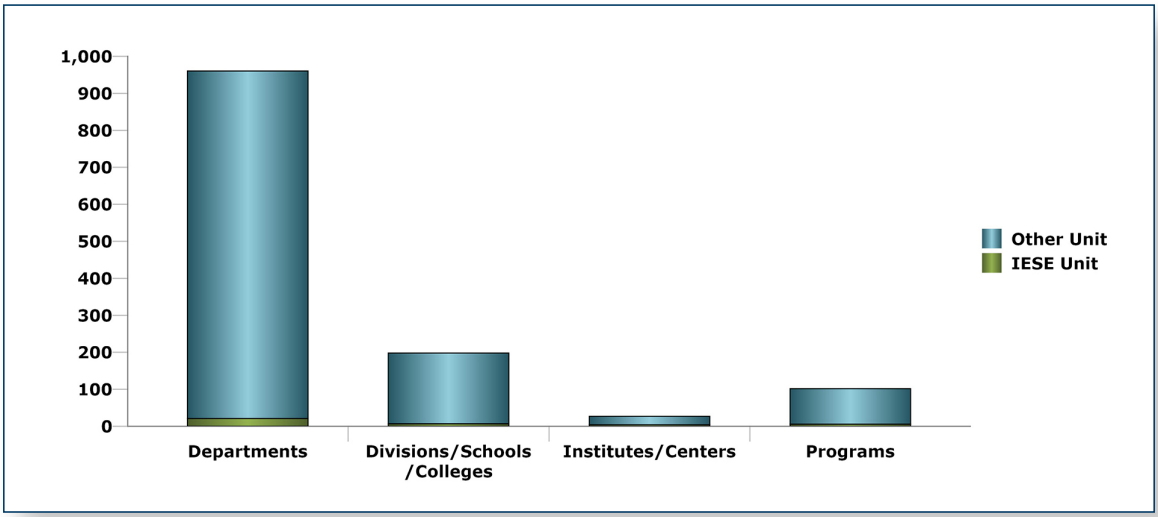
Figure 7. Degrees in disciplines/professional fields with IESE specializations: proportions by type



Administrative Homes for Other Degrees with IESE Specializations

A total of 1,286 programs, departments, divisions/colleges/schools, and institutes /centers serve as the administrative homes for disciplinary degrees with IESE specializations (Figure 8). Most are disciplinary departments (73%) or divisions/schools/colleges (15%). Disciplinary institutes/centers (2%) and programs (7%) administer smaller proportions. IESE units are the administrative homes for 3%.

Figure 8. Administrative homes for degrees in disciplines/ professional fields with IESE specializations



Concluding Statement

The 2016 census reveals four key trends in IESE education:

- Continuing growth vertically in the number of IESE degree programs and horizontally in formal IESE specializations in diverse disciplines and professional fields with an increasing focus on sustainability.
- Blurring boundaries between IESE and disciplinary/professional programs.
- Increasing focus on environmental/sustainability design and planning.
- Increasing numbers of IESE departments, schools, colleges, and degree-granting institutes and centers.

Trend 1: Vertical and Horizontal Growth – Increasing Focus on Sustainability

The IESE field continues to grow with the establishment of new environmental science(s), environmental studies, natural resources-focused, and other types of degree programs, as well as IESE content expanding into other disciplines and professional fields via formal specializations. There are about the same number of degree programs with IESE concentrations as there are IESE degree programs.

Sustainability education is the fastest growing segment of the IESE field. The number of degree programs in sustainability almost doubled between 2012 and 2016 and sustainability specializations are prevalent in other disciplines and professional fields, including business management, architecture, design and planning (especially sustainable cities/communities), and engineering (especially water/watersheds and sustainable infrastructure). New types of sustainability programs emerged between 2012 and 2016—including programs focused on sustainable communities/cities, design and the built environment, sustainable natural resources and conservation, sustainable energy, leadership for sustainability, and social innovation and change for sustainability. Previous NCSE research also documented that sustainability is a core principle for other types of IESE degree programs.

Trend 2: Blurred Boundaries

It is increasingly difficult to classify some degree programs as IESE programs or disciplinary programs with IESE concentrations. Programs that combine environmental science and engineering, environmental and sustainability design programs, and sustainability leadership/management programs are emerging examples of programs that are hard to classify. These programs are key examples of how sustainability and environmental design and context is becoming incorporated into all types of professions.

Trend 3: Increasing Focus on Design and Planning

The 2016 census identified increasing numbers of IESE degrees that focus on design and planning and other degrees with IESE specializations in design and planning fields such as engineering, urban planning, architecture and built environment, and business management. New types of programs in environmental/sustainability design emerged between 2012 and 2016. These innovative 50+ degree programs prepare students to design sustainable products, buildings, neighborhoods, cities, and regions using approaches that blend technical, ecological, economic, social, cultural, aesthetics, and ethical concerns.

Trend 4: IESE Departments, Schools, Colleges and Degree-granting Institutes and Centers

The number of interdisciplinary departments, divisions, schools, colleges, and degree-granting institutes/centers identified in the 2016 census grew substantially from 2012 to 2016, continuing a trend in the creation of new IESE units that provide homes for IESE degree programs as well as support for IESE education and research across institutions.

Together, these four trends indicate that the IESE higher education movement is thriving and evolving simultaneously. NCSE will continue to provide our members and constituencies with the cutting-edge information they need to participate in and shape this dynamic and growing field.

Appendix A – IESE Departments, Divisions, Schools, Colleges and Degree-granting Institutes and Centers

Table 7. IESE departments by institution type; N=347

Doctoral Universities – Highest Research Activity (N=83)
Boston University – Department of Earth and Environment; College of Arts and Sciences
Brown University – Department of Earth, Environmental and Planetary Sciences
Columbia University – Department of Earth and Environmental Sciences; Columbia College
California Institute of Technology – Department of Environmental Science and Engineering; Division of Engineering and Applied Science
Case Western Reserve University – Department of Earth, Environmental, and Planetary Sciences; College of Arts and Sciences
Clemson University – Department of Forestry and Environmental Conservation; College of Agriculture, Forestry, and Life Sciences
Clemson University – Department of Plant and Environmental Sciences; College of Agriculture, Forestry, and Life Sciences
Colorado State University – Department of Ecosystem Science and Sustainability; Warner College of Natural Resources
Colorado State University – Department of Human Dimensions of Natural Resources; Warner College of Natural Resources
Cornell University – Department of Design and Environmental Analysis; College of Human Ecology
Cornell University – Department of Natural Resources; College of Agriculture and Life Sciences
Emory University – Department of Environmental Sciences; College of Arts and Sciences
Florida International University – Department of Earth and Environment; School of Environment, Arts and Society
George Mason University – Department of Environmental Science and Policy; College of Science
Harvard University – Department of Visual and Environmental Studies; Faculty of Arts and Sciences
Iowa State University – Department of Natural Resource Ecology and Management; College of Agriculture and Life Sciences
Iowa State University – Department of Sustainable Environments; College of Design
Louisiana State University and Agricultural and Mechanical College – Department of Environmental Sciences; College of the Coast and Environment
Louisiana State University and Agricultural and Mechanical College – Department of Oceanography and Coastal Sciences; School of the Coast and Environment
Michigan State University – Department of Community Sustainability; College of Agriculture and Natural Resources
Michigan State University – Department of Fisheries and Wildlife; College of Agriculture and Natural Resources
Michigan State University – Department of Forestry; College of Agriculture and Natural Resources
North Carolina State University-Raleigh – Department of Marine, Earth and Atmospheric Sciences; College of Sciences
North Carolina State University-Raleigh – Department of Forestry and Environmental Resources; College of Natural Resources
Northeastern University – Department of Marine and Environmental Sciences; College of Science
Oregon State University – Department of Forest Engineering, Resources and Management; College of Forestry
Oregon State University – Department of Fisheries and Wildlife; College of Agricultural Sciences
Oregon State University – Department of Forest Ecosystems and Society; College of Forestry
Oregon State University – Department of Animal and Rangeland Sciences; College of Agricultural Sciences
Purdue University – Department of Forestry and Natural Resources; College of Agriculture
Rutgers University-New Brunswick – Department of Marine and Coastal Sciences; School of Environmental and Biological Sciences

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Table 7. IESE departments by institution type; N=347 (continued)

Rutgers University-New Brunswick – Department of Human Ecology; School of Environmental and Biological Sciences
Rutgers University-New Brunswick – Department of Environmental Sciences; School of Environmental and Biological Sciences
Rutgers University-New Brunswick – Department of Ecology, Evolution and Natural Resources; School of Environmental and Biological Sciences
Stanford University – Department of Earth System Sciences; School of Earth, Energy and Environmental Science
SUNY-Albany – Department of Atmospheric and Environmental Sciences; College of Arts and Sciences
Texas A & M University – Department of Ecosystem Science and Management; College of Agriculture and Life Sciences
Texas A & M University – Department of Wildlife and Fisheries Science; College of Agriculture and Life Sciences
Texas A & M University-Galveston – Department of Marine Sciences
Texas Tech University – Department of Natural Resource Management; College of Agricultural Sciences and Natural Resources
Tufts University – Department of Urban and Environmental Policy and Planning; School of Arts and Sciences
University of Arizona – Department of Soil, Water and Environmental Science; College of Agriculture and Life Sciences
University of Arkansas – Department of Crop, Soil, and Environmental Sciences; College of Agricultural, Food and Life Sciences
University of California-Berkeley – Department of Environmental Science, Policy and Management; College of Natural Resources
University of California-Davis – Department of Environmental Science and Policy; College of Agricultural and Environmental Sciences
University of California-Davis – Department of Human Ecology; College of Agricultural and Environmental Science
University of California-Davis – Department of Land, Air and Water Resources; College of Agricultural and Environmental Sciences
University of California-Riverside – Department of Environmental Sciences; College of Natural and Agricultural Sciences
University of California-Santa Cruz – Department of Environmental Studies; Division of Mathematical, Life, and Physical Sciences; College of Letters and Science
University of Connecticut – Department of Marine Sciences; College of Liberal Arts and Sciences
University of Connecticut – Department of Natural Resources and the Environment; College of Agriculture and Natural Resources
University of Florida – Department of Soil and Water Science; College of Agricultural and Life Sciences
University of Florida – Department of Wildlife Ecology and Conservation; College of Agricultural and Life Sciences
University of Georgia – Department of Marine Sciences; College of Arts and Sciences
University of Hawaii-Manoa – Department of Natural Resources and Environmental Management; College of Tropical Agriculture and Human Resources
University of Illinois-Chicago – Department of Earth and Environmental Sciences; College of Liberal Arts and Sciences
University of Illinois-Urbana-Champaign – Department of Natural Resources and Environmental Sciences; College of Agricultural, Consumer, and Environmental Science
University of Iowa – Department of Geographical and Sustainability Sciences; College of Liberal Arts and Sciences
University of Kentucky – Department of Forestry; College of Agriculture, Food and Environment
University of Maryland-College Park – Department of Environmental Science and Technology; College of Agriculture and Natural Resources
University of Massachusetts-Amherst – Department of Environmental Conservation; College of Natural Science
University of Michigan-Ann Arbor – Department of Earth and Environmental Sciences; College of Literature, Science, and the Arts
University of Minnesota-Twin Cities – Department of Geography, Environment and Society; College of Liberal Arts
University of Minnesota-Twin Cities – Department of Forest Science; Division of Environmental Science, Policy and Management; College of Food, Agricultural and Natural Resource Sciences
University of Minnesota-Twin Cities – Department of Fisheries, Wildlife and Conservation Biology; College of Food, Agricultural and Natural Resource Sciences
University of Missouri-Columbia – Department of Soil, Environmental and Atmospheric Sciences; School of Natural Resources; College of Agriculture, Food and Natural Resources

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Table 7. IESE departments by institution type; N=347 (continued)

University of North Carolina-Chapel Hill – Department of Marine Sciences; College of Arts and Sciences
University of North Carolina-Chapel Hill – Department of Environmental Sciences and Engineering; School of Global Public Health
University of Oklahoma – Department of Geography and Environmental Sustainability; College of Atmospheric and Geographic Sciences
University of Pennsylvania – Department of Earth and Environmental Science; School of Arts and Sciences
University of Pittsburgh – Department of Geology and Environmental Science; School of Arts and Sciences
University of Rochester – Department of Earth and Environmental Science; School of Arts and Sciences
University of Tennessee-Knoxville – Department of Forestry, Wildlife and Fisheries; College of Agricultural Sciences and Natural Resources
University of Texas-Arlington – Department of Environmental and Earth Sciences; College of Science
University of Texas-Austin – Department of Geography and Environment; College of Liberal Arts
University of Virginia – Department of Environmental Sciences; College and Graduate School of Arts and Sciences
University of Virginia – Department of Urban and Environmental Planning; School of Architecture
University of Wisconsin-Madison – Department of Forest and Wildlife Ecology; College of Agricultural and Life Sciences
Vanderbilt University – Department of Earth and Environmental Sciences; College of Arts and Sciences
Virginia Polytechnic Institute and State University – Department of Fish and Wildlife Conservation; College of Natural Resources and Environment
Virginia Polytechnic Institute and State University – Department of Crop and Soil Environmental Sciences; College of Agriculture and Life Sciences
Virginia Polytechnic Institute and State University – Department of Forest Resources and Environmental Conservation; College of Natural Resources and Environment
Washington University in Saint Louis – Department of Environmental Studies; College of Arts and Sciences
Doctoral Universities – Higher Research Activity (N=55)
American University – Department of Environmental Science; College of Arts and Sciences
Auburn University – Department of Crop, Soil, and Environmental Sciences; College of Agriculture
Ball State University – Department of Natural Resources and Environmental Management; College of Sciences and Humanities
Baylor University – Department of Environmental Science; College of Arts and Sciences
Boston College – Department of Earth and Environmental Sciences; Robert J. Morrissey College of Arts and Sciences
Bowling Green State University – Department of the Environment and Sustainability; School of Earth, Environment and Society; College of Arts and Sciences
Brigham Young University – Department of Plant and Wildlife Sciences; College of Life Sciences
Cleveland State University – Department of Biological, Geological, and Environmental Sciences; College of Sciences and Health Professions
Dartmouth College – Department of Environmental Studies; School of Arts and Sciences
Drexel University – Department of Biodiversity, Earth and Environmental Sciences; College of Arts and Sciences
East Carolina University – Department of Coastal Resources Management; College of Arts and Sciences
Florida Institute of Technology – Department of Marine and Environmental Systems; College of Engineering
George Mason University – Department of Environmental Science and Policy; College of Science
Lehigh University – Department of Earth and Environmental Sciences; College of Arts and Science
Mississippi State University – Department of Forestry; College of Forest Resources
Montana State University – Department of Land Resources and Environmental Sciences; College of Agriculture
New Jersey Institute of Technology – Department of Chemistry and Environmental Science; College of Science and Liberal Arts
New Mexico State University – Department of Fish, Wildlife and Conservation Ecology; College of Agricultural, Consumer and Environmental Sciences

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Table 7. IESE departments by institution type; N=347 (continued)

New Mexico State University – Department of Plant and Environmental Sciences; College of Agricultural, Consumer and Environmental Sciences
North Carolina A & T State University – Department of Natural Resources and Environmental Design; School of Agriculture and Environmental Science
Nova Southeastern University – Department of Marine and Environmental Sciences; Halmos College of Natural Sciences and Oceanography
Oklahoma State University – Department of Natural Resource Ecology and Management; College of Agricultural Sciences and Natural Resources
Portland State University – Department of Environmental Science and Management; School of the Environment; College of Liberal Arts and Sciences
Rensselaer Polytechnic Institute – Department of Earth and Environmental Sciences; School of Science
Rutgers University-Newark – Department of Earth and Environmental Sciences; College of Arts and Science
South Dakota State University – Department of Natural Resource Management; College of Agriculture and Biological Sciences
Southern Illinois University-Carbondale – Department of Geography and Environmental Resources; College of Liberal Arts
Southern Illinois University-Carbondale – Department of Forestry; College of Agricultural Sciences
SUNY-Binghamton – Department of Geological Sciences and Environmental Studies; Division of Science and Mathematics
Texas A & M University-Commerce – Department of Biological and Environmental Sciences; College of Sciences, Engineering and Agriculture
University of Alaska-Fairbanks – Department of Biology and Wildlife; College of Natural Science and Mathematics
University of Alaska-Fairbanks – Department of Fisheries; College of Fisheries and Ocean Sciences
University of Alaska-Fairbanks – Department of Resources Management; School of Natural Resources
University of Colorado-Denver – Department of Geography and Environmental Sciences; College of Liberal Arts and Sciences
University of Denver – Department of Geography and the Environment; Division of Natural Sciences and Mathematics
University of Idaho – Department of Fish and Wildlife Sciences; College of Natural Resources
University of Idaho – Department of Forest, Rangeland and Fire Sciences; College of Natural Resources
University of Idaho – Department of Natural Resources and Society; College of Natural Resources
University of Maine – Department of Plant, Soil, and Environmental Sciences; College of Natural Sciences, Forestry and Agriculture
University of Maine – Department of Wildlife, Fisheries, and Conservation Biology; College of Natural Sciences, Forestry and Agriculture
University of Maryland-Baltimore County – Department of Geography and Environmental Systems; College of Arts, Humanities and Social Sciences
University of Massachusetts-Lowell – Department of Environmental, Earth and Ocean Sciences; Kennedy College of Sciences
University of Nevada-Reno – Department of Natural Resources and Environmental Science; College of Agriculture, Biotechnology, and Natural Resources
University of New Hampshire – Department of Natural Resources and the Environment; College of Life Sciences and Agriculture
University of New Orleans – Department of Earth and Environmental Sciences; College of Sciences
University of North Dakota – Department of Earth Systems Science and Policy; School of Aerospace Sciences
University of Rhode Island – Department of Natural Resources Science; College of the Environment and Life Sciences
University of Rhode Island – Department of Marine Affairs; College of Environment and Life Sciences
University of South Alabama – Department of Marine Sciences; College of Arts and Sciences
University of Texas-San Antonio – Department of Environmental Science; College of Sciences
University of Toledo – Department of Environmental Science; College of Natural Sciences and Mathematics
University of Wyoming – Department of Ecosystem Science and Management; College of Agriculture and Natural Resources
Utah State University – Department of Environment and Society; College of Natural Resources
Utah State University – Department of Watershed Sciences; College of Natural Resources
Utah State University – Department of Wildland Resources; College of Natural Resources

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Table 7. IESE departments by institution type; N=347 (continued)

Doctoral Universities – Moderate Research Activity (N=24)
Clark University – Department of International Development, Community and Environment
Dallas Baptist University – Department of Environmental Science; College of Natural Sciences and Mathematics
DePaul University Department of Environmental Science and Studies; College of Science and Health
Hofstra University – Department of Geology, Environment and Sustainability; College of Liberal Arts and Sciences
Indiana State University – Department of Earth and Environmental Systems; College of Arts and Sciences
Montclair State University – Department of Earth and Environmental Studies; College of Science and Mathematics
Pace University – Department of Environmental Studies and Science; School of Arts and Sciences
San Francisco State University – Department of Geography and Environment; College of Science and Engineering
SUNY-Syracuse College of Environmental Science and Forestry – Department of Environmental Studies
SUNY-Syracuse College of Environmental Science and Forestry – Department of Forest and Natural Resource Management
Texas A & M University-Corpus Christi – Department of Physical and Environmental Sciences; College of Science and Engineering
Texas A & M University-Kingsville – Department of Animal, Rangeland and Wildlife Science; College of Agricultural, Natural Resources and Human Sciences
Texas Southern University – Department of Environmental Science and Technology; College of Science and Technology
Texas Southern University – Department of Urban Planning and Environmental Policy; School of Public Affairs
University of Maryland-Eastern Shore – Department of Environmental Science and Technology; College of Agriculture and Natural Resources
University of Saint Thomas-Saint Paul – Department of Geography and Environmental Studies; College of Arts and Science
University of San Diego – Department of Environmental and Ocean Sciences; College of Arts and Sciences
University of San Francisco – Department of Environmental Science; College of Arts and Sciences
University of the Pacific – Department of Earth and Environmental Sciences; College of Arts and Sciences
University of the Pacific – Department of Geological and Environmental Sciences; College of Arts and Sciences
University of West Florida – Department of Earth and Environmental Sciences; Hal Marcus College Science and Engineering
Villanova University – Department of Geography and the Environment; College of Liberal Arts and Sciences
Widener University – Department of Environmental Science; Division of Science; College of Arts and Sciences
Wright State University – Department of Earth and Environmental Sciences; College of Science and Mathematics
Master's College and Universities – Large (N=74)
Abilene Christian University – Department of Agriculture and Environmental Sciences; College of Arts and Sciences
Alabama A & M University – Department of Biological and Environmental Science; College of Agricultural, Life and Natural Sciences
Antioch New England Graduate School – Department of Environmental Studies
Appalachian State University – Department of Sustainable Development; College of Fine and Applied Arts
Appalachian State University – Department of Sustainable Technology and the Built Environment; College of Fine and Applied Arts
California Polytechnic State University-San Luis Obispo – Department of Natural Resources Management and Environmental Sciences; College of Agriculture, Food and Environmental Sciences
California State University-Chico – Department of Geological and Environmental Sciences; College of Natural Sciences
California State University-East Bay – Department of Earth and Environmental Sciences; College of Science
California State University-Los Angeles – Department of Geosciences and Environment; College of Natural and Social Sciences
California State University-Sacramento – Department of Environmental Studies; College of Social Sciences and Interdisciplinary Studies
California State University-San Bernardino – Department of Geography and Environmental Studies; College of Social and Behavioral Sciences

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Table 7. IESE departments by institution type; N=347 (continued)

California University of Pennsylvania – Department of Biological and Environmental Sciences; College of Science and Technology
Coastal Carolina University – Department of Marine Science; College of Science
Coastal Carolina University – Department of Coastal and Marine Systems Science; College of Science
CUNY Brooklyn College – Department of Earth and Environmental Sciences; School of Natural and Behavioral Sciences
CUNY Lehman College – Department of Environmental, Geographic, and Geological Sciences; School of Natural and Social Sciences
Dowling College – Department of Earth and Environmental Sciences; School of Arts and Sciences
Florida Gulf Coast University – Department of Marine and Ecological Science; College of Arts and Sciences
Georgia College and State University – Department of Biological and Environmental Sciences; College of Arts and Sciences
Ithaca College – Department of Environmental Studies and Sciences; School of Humanities and Sciences
Jacksonville University – Department of Biology and Marine Science
La Salle University – Department of Geology, Environmental Science, and Physics; School of Arts and Sciences
Long Island University-C. W. Post – Department of Earth and Environmental Science; College of Liberal Arts and Sciences
Loyola Marymount University – Department of Civil Engineering and Environmental Science; College of Science and Engineering
Maharishi University of Management – Department of Sustainable Living
Marist College – Department of Environmental Science and Policy; School of Science
Molloy College – Department of Biology, Chemistry and Environmental Studies; Natural Sciences Division
New Mexico Highlands University – Department of Natural Resources Management; College of Arts and Sciences
New York Institute of Technology-Old Westbury – Department of Energy Management; School of Engineering and Computing Sciences
North Carolina Central University – Department of Environmental, Earth, and Geospatial Sciences; College of Science and Technology
Northeastern Illinois University – Department of Geography and Environmental Studies; College of Arts and Sciences
Norwich University – Department of Geology and Environmental Science; School of Mathematics and Science
Pacific University – Department of Environmental Studies; College of Arts and Sciences
Plymouth State University – Department of Environmental Science and Policy
Regis University – Department of Environmental Science; College of Liberal Arts
Rider University – Department of Geological, Environmental, and Marine Sciences; College of Liberal Arts, Education, and Sciences
Rollins College – Department of Environmental Studies; College of Arts and Sciences
Rowan University – Department of Geography and Environment; College of Liberal Arts and Sciences
Saint Cloud State University – Department of Environmental and Technology Studies; School of Computing, Engineering and Environment; College of Science and Engineering
Saint Francis University – Department of Environmental Studies; School of Arts and Letters
Saint Joseph's College-Maine – Department of Environmental Science
Salisbury University – Department of Environmental Studies
Samford University – Department of Biological and Environmental Sciences; Howard College of Arts and Sciences
Santa Clara University – Department of Environmental Studies and Sciences; College of Arts and Sciences
San Jose State University – Department of Environmental Studies; College of Social Sciences
Sonoma State University – Department of Environmental Studies and Planning; School of Social Sciences
Southeast Missouri State University – Department of Human Environmental Studies; College of Health and Human Services
Southeast Missouri State University – Department of Environmental Science; College of Science, Technology, and Agriculture
Sul Ross State University – Department of Natural Resource Management; School of Agricultural and Natural Resource Sciences

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Table 7. IESE departments by institution type; N=347 (continued)

SUNY-Brockport – Department of Environmental Science and Biology; School of Science and Mathematics
Tarleton State University – Department of Wildlife, Sustainability, and Ecosystem Sciences; College of Agriculture and Environmental Science
Tarleton State University – Department of Chemistry, Geosciences and Environmental Sciences; College of Science and Technology
Towson University – Department of Geography and Environmental Planning
Troy University – Department of Biological and Environmental Sciences; College of Arts and Sciences
University of Alaska Anchorage – Department of Geography and Environmental Studies; College of Arts and Sciences
University of Houston-Clear Lake – Department of Biological and Environmental Science; College of Science and Engineering
University of Illinois-Springfield – Department of Environmental Studies; College of Public Affairs and Administration
University of Mary Washington – Department of Earth and Environmental Sciences; College of Arts and Sciences
University of Minnesota-Duluth – Department of Earth and Environmental Sciences; College of Science and Engineering
University of New England – Department of Environmental Studies; College of Arts and Sciences
University of New England – Department of Marine Sciences; College of Arts and Sciences
University of New Haven – Department of Biology and Environmental Science; College of Arts and Sciences
University of North Carolina-Wilmington – Department of Environmental Studies; College of Arts and Sciences
University of Southern Maine – Department of Environmental Science and Policy; School of Environmental, Health, and Life Sciences; College of Science, Technology, and Health
University of Tennessee-Chattanooga – Department of Biological and Environmental Sciences; College of Arts and Sciences
University of West Alabama – Department of Biological and Environmental Sciences; College of Natural Science and Mathematics
Waynesburg University – Department of Biology, Environmental Science and Athletic Training
West Texas A & M University – Department of Life, Earth and Environmental Sciences; College of Agriculture, Science and Engineering
Western Carolina University – Department of Geosciences and Natural Resources; College of Arts and Sciences
Western Washington University – Department of Energy Studies; University Interdisciplinary Programs
Western Washington University – Department of Environmental Science; Huxley College of Environment
William Paterson University of New Jersey – Department of Environmental Science; College of Science and Health
Worcester State College – Department of Earth, Environment, and Physics; School of Education, Health, and Natural Sciences
Youngstown State University – Department of Geological and Environmental Sciences; College of Science, Technology, Engineering and Mathematics
Master's College and Universities – Medium (N=21)
Capital University – Department of Biological and Environmental Science; School of Natural Sciences, Nursing and Health
Delaware State University – Department of Agriculture and Natural Resources; College of Agriculture and Related Sciences
Elon University – Department of Environmental Studies; College of Arts and Sciences
Franklin Pierce University – Department of Environmental Science; Division of Natural Sciences
Hampton University – Department of Marine and Environmental Science; School of Science
Hardin-Simmons University – Department of Geological and Environmental Sciences; School of Sciences and Mathematics
Humboldt State University – Department of Environmental Studies; College of Arts, Humanities and Social Sciences
Humboldt State University – Department of Environmental Science and Management; College of Natural Resources and Sciences
Humboldt State University – Department of Wildlife; College of Natural Resources and Sciences
Langston University – Department of Agriculture and Natural Resources; School of Agriculture and Applied Sciences
Lynchburg College – Department of Environmental Science; School of Sciences

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Table 7. IESE departments by institution type; N=347 (continued)

Northern Michigan University – Department of Earth, Environmental and Geographical Sciences; College of Arts and Sciences
Ohio Dominican University – Department of Environmental Science; Division of Mathematics, Computer, and Natural Science
Queens University of Charlotte – Department of Chemistry and Environmental Science; College of Arts and Sciences
Roger Williams University – Department of Biology, Marine Biology and Environmental Science; College of Arts and Sciences
Stetson University – Department of Geography and Environmental Science; College of Arts and Sciences
University of Portland – Department of Environmental Science; College of Arts and Sciences
University of South Florida-St. Petersburg – Department of Environmental Science, Policy, and Geography; College of Arts and Sciences
University of Tennessee-Martin – Department of Agriculture, Geosciences, and Natural Resources; College of Agriculture and Applied Sciences
Westfield State University – Department of Environmental Science
Wheeling Jesuit University – Department of Environment and Sustainability
Master's College and Universities – Small (N=15)
Alaska Pacific University – Department of Marine and Environmental Sciences
Aquinas College – Department of Geography and Environmental Science
Delaware Valley College – Department of Landscape Architecture and Environmental Sciences; School of Agriculture and Environmental Sciences
Johnson State College – Department of Environmental and Health Sciences
Keene State College – Department of Sustainable Product Design and Architecture; School of Professional and Graduate Studies
Kings College-Wilkes-Barre – Department of Environmental Studies
Lincoln University-Jefferson City – Department of Agriculture and Environmental Sciences; College of Agriculture and Environmental Sciences
New Mexico Institute of Mining and Technology – Department of Earth and Environmental Science
Tuskegee University – Department of Agricultural and Environmental Sciences; College of Agriculture, Environmental and Natural Sciences
University of Hawaii-Hilo – Department of Marine Science; College of Arts and Sciences
University of Hawaii-Hilo – Department of Geography and Environmental Sciences; College of Arts and Sciences
University of the District of Columbia – Department of Environmental Science and Urban Sustainability; College of Agriculture, Urban Sustainability, and Environmental Sciences
University of Wisconsin-Green Bay – Department of Public and Environmental Affairs; College of Liberal Arts and Sciences
West Virginia Wesleyan College – Department of Biology and Environmental Science
Western State Colorado University – Department of Environment and Sustainability
Baccalaureate Colleges – Arts and Sciences (N=48)
Allegheny College – Department of Environmental Science and Studies
Amherst College – Department of Environmental Studies
Barnard College – Department of Environmental Science
Berea College – Department of Agricultural and Natural Resources
Bethune-Cookman University – Department of Integrated Environmental Science; School of Science, Engineering and Mathematics
College of Idaho – Department of Environmental Studies
College of Saint Benedict – Department of Environmental Studies
Davidson College – Department of Environmental Studies

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Table 7. IESE departments by institution type; N=347 (continued)

Davis and Elkins College – Department of Biology and Environmental Science
Dickinson College – Department of Environmental Studies
Doane College-Crete – Department of Environmental and Earth Sciences; College of Arts and Sciences
Drew University – Department of Environmental Studies and Sustainability; College of Liberal Arts
Franklin and Marshall College – Department of Earth and Environment
Furman University – Department of Earth and Environmental Sciences; School of Sciences and Mathematics
Gettysburg College – Department of Environmental Studies
Hartwick College – Department of Geology and Environmental Sciences; Division of Physical and Life Sciences
Heidelberg College – Department of Biology and Environmental Sciences
Hiram College – Department of Environmental Studies
Hobart William Smith College – Department of Environmental Studies
Juniata College – Department of Environmental Science and Studies
Macalester College – Department of Environmental Studies
Massachusetts College of Liberal Arts – Department of Environmental Studies
McDaniel College – Department of Environmental Studies
Mount Holyoke College – Department of Environmental Studies
Northland College – Department of Humanity and Nature Studies
Northland College – Department of Natural Resources
Northland College – Department of Water Science
Occidental College – Department of Urban and Environmental Policy
Principia College – Department of Biology and Natural Resources
Randolph College – Department of Environmental Studies
Saint John's University – Department of Environmental Studies
Saint Lawrence University – Department of Environmental Studies
Saint Olaf College – Department of Environmental Studies
Sewanee: The University of the South – Department of Earth and Environmental Systems
Siena College – Department of Environmental Studies; School of Science
Simpson College – Department of Biology and Environmental Science
Susquehanna University – Department of Earth and Environmental Sciences; School of Natural and Social Sciences
Sweet Briar College – Department of Environmental Studies
Thiel College – Department of Environmental Science
University of North Carolina-Asheville – Department of Environmental Studies
University of Richmond – Department of Geography and the Environment; School of Arts and Sciences
University of Wisconsin-Parkside – Department of Environmental Studies; College of Natural and Health Sciences
Virginia Wesleyan College – Department of Earth and Environmental Sciences; Division of Natural Sciences and Mathematics
Warren Wilson College – Department of Environmental Studies
Wesleyan University – Department of Earth and Environmental Sciences
Westminster College-Fulton – Department of Biology and Environmental Studies; Division of Natural and Mathematical Sciences

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Table 7. IESE departments by institution type; N=347 (continued)

Wheaton College – Department of Geology and Environmental Science; College of Arts and Science
Willamette University – Department of Environmental and Earth Sciences; College of Liberal Arts
Baccalaureate Colleges – Diverse Fields (N=17)
Buena Vista University – Department of Environmental Science; School of Science
Calvin College – Department of Geology, Geography and Environmental Studies
Colby-Sawyer College – Department of Environmental Studies
Colorado Mesa University – Department of Physical and Environmental Sciences
CUNY Medgar Evers College – Department of Physical, Environmental and Computer Sciences; School of Science, Health and Technology
Dordt College – Department of Environmental Studies
Georgia Gwinnett College – Department of Environmental Science; School of Science and Technology
Glenville State College – Department of Land Resources
Lake Superior State University – Department of Environmental Sciences; School of Physical Sciences; College of Arts and Sciences
Marietta College – Department of Biology and Environmental Science
Mitchell College – Department of Science, Technology, Environmental Studies, and Mathematics
Oregon Institute of Technology – Department of Natural Resources; College of Health, Arts and Sciences
Taylor University – Department of Earth and Environmental Science; School of Natural and Applied Sciences
University of Minnesota-Crookston – Department of Agriculture and Natural Resources
University of Montana-Western – Department of Environmental Sciences
Wilson College – Department of Environmental Studies
William Jessup University – Department of Environmental Science
Baccalaureate/Associates Colleges – Mixed (N=2)
Abraham Baldwin Agricultural College – Department of Forest Resources; School of Agriculture and Natural Resources
Northern New Mexico College – Department of Biology, Chemistry and Environmental Science; College of Arts and Sciences
Baccalaureate/Associates Colleges – Associates Dominant (N=2)
Broward College – Department of Environmental Science
Skagit Valley College – Department of Environmental Conservation
Special Focus Institutions (N-3)
Art Center College of Design – Department of Environmental Design
Piedmont International University – Department of Chemistry and Environmental Science; College of Arts and Sciences
University of Texas Health Science Center at Houston – Department of Epidemiology, Human Genetics and Environmental Science; School of Public Health
Tribal Colleges (N=3)
Salish Kootenai College – Department of Forestry; College of Natural Resources
Salish Kootenai College – Department of Wildlife and Fisheries; College of Natural Resources
United Tribes Technical College – Department of Tribal Environmental Science

Table 8. IESE divisions and schools within a college by institution type; N=52

Doctoral Universities – Highest Research Activity (N=27)
Duke University – Division of Marine Science and Conservation; Nicholas School of the Environment
Duke University – Division of Environmental Sciences and Policy; Nicholas School of the Environment
Louisiana State University and Agricultural and Mechanical College – School of Renewable Natural Resources; College of Agriculture
Louisiana State University and Agricultural and Mechanical College – School of Plant, Environmental, and Soil Sciences; College of Agriculture
Ohio State University – School of Environment and Natural Resources; College of Food, Agricultural and Environmental Sciences
Pennsylvania State University – School of Forest Resources; College of Agricultural Sciences
University of Southern Mississippi – Division of Coastal Sciences; College of Science and Technology
University of Southern Mississippi – Division of Marine Science; College of Science and Technology
University of Missouri-Columbia – School of Natural Resources; College of Agriculture, Food and Natural Resources
University of Arizona – School of Natural Resources and the Environment; College of Agriculture and Life Sciences
University of Delaware – School of Marine Science and Policy; College of Earth, Ocean and Environment
University of Florida – School of Forest Resources and Conservation; Institute of Food and Agricultural Sciences and College of Agricultural and Life Sciences
University of Florida – School of Natural Resources and the Environment; College of Agricultural and Life Sciences
University of Illinois-Urbana-Champaign – School of Earth, Society and the Environment; College of Liberal Arts and Sciences
University of Georgia – School of Forestry and Natural Resources; College of Agricultural and Environmental Sciences
University of Miami – Division of Marine Affairs and Policy; Rosentiel School of Marine and Atmospheric Science
University of Michigan-Ann Arbor – School of Natural Resources and Environment; College of Literature, Science and the Arts
University of Missouri-Columbia – School of Natural Resource; College of Agriculture, Food and Natural Resources
University of Nebraska-Lincoln – School of Natural Resources; College of Agricultural Sciences and Natural Resources
University of Oklahoma – School of Civil Engineering and Environmental Science; College of Engineering
University of South Carolina-Columbia – School of the Earth, Ocean, and Environment; College of Arts and Sciences
University of Washington-Seattle – School of Environmental and Forest Sciences; College of the Environment
University of Washington-Seattle – School of Marine and Environmental Affairs; College of the Environment
University of Washington-Seattle – School of Aquatic and Fishery Sciences; College of the Environment
Washington State University – School of the Environment; College of Agricultural, Human and Natural Resource Sciences
West Virginia University – Division of Resource Management; Davis College of Agriculture, Natural Resources, and Design
West Virginia University – Division of Forestry and Natural Resources; Davis College of Agriculture, Natural Resources, and Design
Doctoral Universities – Higher Research Activity (N=13)
Bowling Green State University – School of Earth, Environment and Society; College of Arts and Sciences
Clemson University – School of Agricultural, Forest, and Environmental Science; College of Agriculture, Forestry, and Life Sciences
College of William and Mary – School of Marine Science; Virginia Institute of Marine Science
North Dakota State University – School of Natural Resource Sciences; College of Agriculture, Food Systems, and Natural Resources
Northern Arizona University – School of Earth Sciences and Environmental Sustainability; College of Engineering, Forestry and Natural Science
Northern Arizona University – School of Forestry; College of Engineering, Forestry and Natural Sciences

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Table 8. IESE divisions and schools within a college by institution type; N=52 (continued)

Portland State University – School of the Environment; College of Liberal Arts and Sciences
Texas Christian University – School of Geology, Energy and the Environment; College of Science and Engineering
University of Massachusetts-Lowell – School of Marine Sciences and Technology; College of Sciences
University of Maine – School of Marine Sciences; College of Natural Sciences, Forestry, and Agriculture
University of Southern Mississippi – Division of Coastal Sciences; College of Science and Technology
West Virginia University – Division of Forestry and Natural Resources; College of Agriculture, Natural Resources, and Design
West Virginia University – Division of Resource Management; College of Agriculture, Natural Resources, and Design
Doctoral Universities – Moderate Research Activity (N=3)
Louisiana Tech University – School of Forestry; College of Applied and Natural Sciences
Tennessee Technological University – School of Environmental Studies; College of Interdisciplinary Studies
University of Texas-Rio Grande Valley – School of Earth, Environmental, and Marine Sciences; College of Sciences
Master's College and Universities – Large (N=8)
Bellarmine University – School of Environmental Studies; College of Arts and Sciences
Chapman University – School of Earth and Environmental Sciences; College of Science and Technology
CUNY Queens College – School of Earth and Environmental Sciences; Division of Mathematics and Natural Sciences
Kean University – School of Environmental and Sustainability Sciences; College of Natural, Applied and Health Sciences
Saint Cloud State University – School of Computing, Engineering and Environment; College of Science and Engineering
Stephen F. Austin State University – Division of Forestry; Temple College of Forestry and Agriculture
Stephen F. Austin State University – Division of Environmental Science; Temple College of Forestry and Agriculture
University of Southern Maine – School of Environmental, Health, and Life Sciences; College of Science, Technology, and Health
Baccalaureate Colleges – Arts and Sciences (N=1)
Alfred University – Division of Environmental Studies and Geology; College of Arts and Sciences

Table 9. IESE divisions, schools, and colleges by institution type; N=78

Doctoral Universities – High Research Activity (N=32)
Arizona State University – School of Sustainability
Duke University – Nicholas School of the Environment
Indiana University-Bloomington – School of Public and Environmental Affairs
Louisiana State University and Agricultural and Mechanical College – School of the Coast and Environment
Ohio State University – College of Food, Agricultural and Environmental Sciences
Oregon State University – College of Earth, Ocean, and Atmospheric Sciences
Rutgers University-New Brunswick – School of Environmental and Biological Sciences
Stanford University – School of Earth, Energy and Environmental Science
SUNY-Stony Brook – School of Marine and Atmospheric Sciences
University of California-Berkeley – College of Natural Resources
University of California-Davis – College of Agricultural and Environmental Sciences
University of California-Santa Barbara – Bren School of Environmental Science and Management
University of Colorado-Boulder – School of the Environment and Sustainability
University of Connecticut – College of Agriculture and Natural Resources
University of Delaware – College of Agriculture and Natural Resources
University of Delaware – College of Earth, Ocean and Environment
University of Georgia – College of Environment and Design
University of Georgia – College of Agricultural and Environmental Sciences
University of Illinois-Urbana-Champaign – College of Agricultural, Consumer and Environmental Science
University of Kentucky – College of Agriculture, Food and Environment
University of Massachusetts-Boston – School for the Environment
University of Maryland-College Park – College of Agriculture and Natural Resources
University of Miami – Rosentiel School of Marine and Atmospheric Science
University of Minnesota-Twin Cities – College of Food, Agricultural and Natural Resource Sciences
University of Missouri-Columbia – College of Agriculture, Food and Natural Resources
University of South Florida – Patel School of Global Sustainability
University of South Florida – College of Marine Science
University of Washington-Seattle – College of the Environment
University of Wisconsin-Milwaukee – School of Freshwater Sciences
Virginia Polytechnic Institute and State University – College of Natural Resources and Environment
SUNY-Stony Brook – School of Marine and Atmospheric Sciences
Yale University – School of Forestry and Environmental Studies
Doctoral Universities – Higher Research Activity (N=20)
Auburn University – School of Forestry and Wildlife Sciences
Florida Agricultural and Mechanical University – School of the Environment

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Table 9. IESE divisions, schools and colleges by institution type; N=78 (continued)

Michigan Technological University – School of Forest Resources and Environmental Science
Mississippi State University – College of Forest Resources
New Mexico State University – College of Agricultural, Consumer and Environmental Sciences
North Carolina A & T State University – School of Agriculture and Environmental Science
Oklahoma State University – College of Agricultural Sciences and Natural Resources
University of Alaska-Fairbanks – School of Natural Resources
University of Alaska-Fairbanks – College of Fisheries and Ocean Sciences
University of Idaho – College of Natural Resources
University of Maine – College of Natural Sciences, Forestry and Agriculture
University of Massachusetts-Dartmouth – School for Marine Science and Technology
University of Montana – College of Forestry and Conservation
University of Nevada-Reno – College of Agriculture, Biotechnology, and Natural Resources
University of Rhode Island – College of the Environment and Life Sciences
University of Vermont – Rubenstein School of Environment and Natural Resources
University of Wyoming – College of Agriculture and Natural Resources
University of Wyoming – Haub School of Environment and Natural Resources
University of Wyoming – School of Energy Resources
Utah State University – College of Natural Resources
Doctoral Universities – Moderate Research Activity (N=2)
SUNY-Syracuse College of Environmental Science and Forestry – Division of Environmental Science
University of Maryland-Eastern Shore – College of Agriculture and Natural Resources
Master's Colleges and Universities – Large (N=5)
California Polytechnic State University-San Luis Obispo – College of Agriculture, Food and Environmental Sciences
Chatham University – Falk School of Sustainability and the Environment
Sul Ross State University – School of Agricultural and Natural Resource Sciences
Tarleton State University – College of Agriculture and Environmental Science
Western Washington University – Huxley College of the Environment
Master's Colleges and Universities – Medium (N=3)
Arizona State University-Polytechnic – School of Sustainability
Humboldt State University – College of Natural Resources and Sciences
University of Washington-Bothell – School of Interdisciplinary Arts and Sciences
Master's Colleges and Universities – Small (N=6)
Carroll University – School of Freshwater Sciences (in collaboration with University of Wisconsin-Milwaukee)
Lincoln University-Jefferson City – College of Agriculture and Environmental Sciences

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Table 9. IESE divisions, schools and colleges by institution type; N=78 (continued)

Tuskegee University – College of Agriculture, Environmental and Natural Sciences
University of Hawaii-Hilo – College of Agriculture, Forestry, and Natural Resource Management
University of the District of Columbia – College of Agriculture, Urban Sustainability, and Environmental Sciences
University of Wisconsin-Stevens Point – College of Natural Resources
Baccalaureate Colleges – Arts and Sciences (N=2)
University of Maine-Machias – Division of Environmental and Biological Sciences
Wesleyan University – College of the Environment
Baccalaureate Colleges – Diverse Fields (N=5)
California Maritime Academy – School of Maritime Policy and Management
Maine Maritime Academy – School of Ocean Studies
Paul Smiths College of Arts and Sciences – Division of Forestry, Natural Resources and Recreation
Unity College – School of Biodiversity Conservation
Unity College – School of Environmental Citizenship
Baccalaureate/Associate's Colleges – Mixed (N=2)
Abraham Baldwin Agricultural College – School of Agriculture and Natural Resources
University of Arkansas-Monticello – School of Forestry and Natural Resources
Tribal Colleges (N=1)
Salish Kootenai College – College of Natural Resources

Table 10. IESE degree-granting institutes and centers by institution type; N=66

Doctoral Universities – Highest Research Activity (N=21)
Brown University – Institute at Brown for Environment and Society
Columbia University – Earth Institute
Harvard University – Center for Health and the Global Environment
Iowa State University – Bioeconomy Institute
Pennsylvania State University – Environment and Natural Resources Institute
Rice University – Center for the Study of Environment and Society
Texas A & M University – Energy Institute
Texas Tech University – National Wind Institute
University of California-Los Angeles – Institute of the Environment and Sustainability
University of Cincinnati – Center for Environmental Studies
University of Delaware – Center for Energy and Environmental Policy
University of Miami – Abess Center for Ecosystem Science and Policy
University of Minnesota-Twin Cities – Center for the Study of Global Change
University of Minnesota-Twin Cities – Water Resources Center
University of Nebraska-Lincoln – Institute of Agriculture and Natural Resources
University of Texas-Austin – Environmental Science Institute
University of Texas-Austin – Marine Science Institute
University of Wisconsin-Madison – Nelson Institute for Environmental Studies
University of Washington-Seattle – Center for Quantitative Science in Forestry, Fisheries and Wildlife
Virginia Commonwealth University – Center for Environmental Studies
Virginia Polytechnic Institute and State University – Center for Environmental Applications in Remote Sensing
Doctoral Universities – Higher Research Activity (N=11)
Baylor University – Institute of Ecological, Earth and Environmental Sciences
Duquesne University – Center for Environmental Research and Education
Lehigh University – Environmental Initiative; College of Arts and Sciences
Loyola University – Institute of Environmental Sustainability
Miami University-Oxford – Institute for the Environment and Sustainability; College of Art and Science
New School – Environment and Design Center; School of Design Strategies: Cities, Services, Ecosystems
Northern Illinois University – Institute for the Study of the Environment, Sustainability, and Energy
Saint Louis University – Center for Sustainability
University of Maine – Climate Change Institute
Wake Forest University – Center for Energy, Environment and Sustainability
Western Michigan University – Institute of the Environment and Sustainability

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Table 10. IESE degree-granting institutes and centers by institution type; N=66 (continued)

Doctoral Universities (N=4)
Clarkson University – Clarkson Institute for a Sustainable Environment
Lipscomb University – Institute for Sustainable Practice
Suffolk University – Center for Urban Ecology and Sustainability
Rochester Institute of Technology – Golisano Institute for Sustainability
Master's Colleges and Universities – Large (N=11)
California State Polytechnic University-Pomona – Center for Regenerative Studies
Creighton University – Institute of Environmental Sciences
Central Washington University – Institute for Integrated Energy Studies; College of the Sciences
Central Washington University – Center for the Environment
Murray State University – Watershed Studies Institute
Plymouth State University – Center for the Environment
Simmons College – Colleges of the Fenway Consortium Center for Sustainability and the Environment
Stephen F. Austin State University – Center for a Livable World; College of Liberal and Applied Arts
SUNY-Plattsburgh – Center for Earth and Environmental Science
University of North Carolina-Wilmington – Center for Marine Studies
Western Illinois University – Institute for Environmental Studies
Master's Colleges and Universities – Medium (N=1)
Indiana University-South Bend – Center for a Sustainable Future
Master's Colleges and Universities – Small (N=1)
Bemidji State University – Center for Environmental, Earth and Space Studies
Baccalaureate Colleges – Arts and Sciences (N=13)
Albion College – Center for Sustainability and the Environment
Austin College – Center for Environmental Studies
Bard College – Center for Environmental Policy
Claremont McKenna College – Claremont University Consortium Environmental Center
Emmanuel College-Boston – Colleges of the Fenway Consortium Center for Sustainability and the Environment
Pitzer College – Claremont University Consortium Environmental Center
Gustavus Adolphus College – Johnson Center for Environmental Innovation
Marlboro College – Institute of Environmental Science
Middlebury College – Franklin Environmental Center at Hillcrest
Pomona College – Claremont University Consortium Environmental Center
Scripps College – Claremont University Consortium Environmental Center

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Table 10. IESE degree-granting institutes and centers by institution type; N=66 (continued)

Shepherd University – Institute of Environmental and Physical Sciences; School of Natural Sciences and Mathematics
Williams College – Center for Environmental Studies
Baccalaureate Colleges – Diverse Fields (N=3)
Central State University – International Center for Water Resources Management
University of Pittsburgh-Bradford – Energy Institute
Wilson College – Fulton Center for Sustainability Studies
Baccalaureate/Associate's Mixed Colleges (N=1)
SUNY-Cobleskill – Center for Environmental Science and Technology

NCSE University Affiliate Members

Adelphi University
Alabama A&M University
Antioch University New England
Arizona State University
Arkansas State University
Ball State University
Bard College
Bellarmine University
Bentley University
Boston College
Boston University
Bowdoin College
Bryn Mawr College
California Polytechnic State University, San Luis Obispo
California State University, Chico
Chatham University
Clarkson University
Colby College
Colgate University
College of Charleston
College of St. Benedict/St. John's University
Colorado State University
Columbia University
Dickinson College
Doane University
Drexel University
Duke University
Duquesne University
The Evergreen State College
Fairfield University
Florida A&M University
Florida International University
Franklin & Marshall College
Frostburg State University
George Mason University
The George Washington University
Georgia State University
Goshen College
Haverford College
Heritage University
Indiana University
Iowa State University
Jackson State University
Johns Hopkins University
Lehigh University
Louisiana State University
Loyola Marymount University
Macalester College
Manhattan College
Michigan State University
Middlebury College
Moravian College
New College of Florida
New York Institute of Technology
North Carolina A&T State University
North Carolina State University
Northeastern University
Northern Arizona University
Oberlin College
The Ohio State University
Oregon State University
Pace University
Pennsylvania State University
Portland State University
Purdue University
Rutgers University
Salisbury University
Siena College
Smith College
Southern New Hampshire University
SUNY College of Environmental Science and Forestry
Swarthmore College
Tennessee State University
Texas A&M University
Texas State University
Towson University
Tufts University
Unity College
The University of Alabama
The University of Arizona
University of Arkansas
University of California, Davis
University of California, Irvine
University of California, Merced
University of California, San Diego
University of Dayton
University of Delaware
University of the District of Columbia
University of Findlay
University of La Verne
The University of Maryland Center for Environmental Science
University of Michigan
University of Minnesota
University of Nebraska-Lincoln
University of New Hampshire
The University of North Carolina at Chapel Hill
The University of North Carolina at Greensboro
University of North Texas
University of Pittsburgh
University of Redlands
University of Rhode Island
University of South Carolina
University of Texas at El Paso
University of Toledo
University of Vermont
University of Wisconsin-Extension
University of Wisconsin-Madison
University of Wisconsin-Milwaukee
University of Wisconsin-Whitewater
University of Wyoming
Vassar College
Vermont Law School
Warren Wilson College
Western Washington University
Widener University
Williams College
Winthrop University
Worcester Polytechnic Institute
Yale University

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