

Docket Item:

University Program Approval: Oregon State University, Bachelor of Arts (B.A.)/Bachelor of Science (B.S.) in Marine Studies.

Summary:

Oregon State University proposes a new degree program leading to a B.A./B.S. in Marine Studies. The statewide Provosts' Council has unanimously recommended approval. Higher Education Coordinating Commission (HECC) staff completed a review of the proposed program. After analysis, HECC staff recommends approval of the program as proposed.

Staff Recommendation:

The HECC recommends the adoption of the following resolution:

RESOLVED, that the Higher Education Coordinating Commission approve the following program:
B.A./B.S. in Marine Studies at Oregon State University



HECC Docket Submission

Oregon State University seeks the Oregon Higher Education Coordinating Commission approval to offer an instructional program leading to a Bachelor of Arts (BA) or Bachelor of Science (BS) in Marine Studies.

Program Description and Justification

1. Identify the institution, degree, and title of the program.

Oregon State University is proposing to offer a new Bachelor of Arts and Bachelor of Science degree program in Marine Studies beginning Spring 2021. The program will be located in the College of Liberal Arts. The proposed program will be delivered face-to-face on the OSU-Corvallis campus.

2. Describe the purpose and relationship of the proposed program to the institution's mission and strategic plan.

The BA/BS degree in Marine Studies at OSU will offer an interdisciplinary program that leverages the expertise of faculty from across campus. The program will educate a new generation of ocean literate leaders with skills for navigating diverse professional fields with socially engaged, multidisciplinary, and practical views and experiences. Marine Studies at OSU welcomes and prepares all learners to explore the marine world through engagement with the natural sciences, social sciences, and the humanities and arts disciplines. The program offers a distinctive marine experience accessible to all students as it advances innovative research and critical inquiry focused on marine environments and communities and invests in community-based collaborations and scholarship through experiential learning and professional development.

The Marine Studies program expects to make a meaningful contribution to OSU's strategic plan through improving human health and wellness, promoting economic prosperity and social progress, and advancing the science of sustainable earth ecosystems as we participate in solving complex problems for Oregon.

3. What evidence of need does the institution have for the program?

A needs assessment was conducted by two different groups to assess the market viability of a bachelor-level marine studies program. The two groups were EAB (<https://www.eab.com/>) and the OSU Policy Analysis Laboratory (<https://liberalarts.oregonstate.edu/spp/opal>). The OSU Policy Analysis Laboratory conducted a survey of currently enrolled OSU students. In summary, there is opportunity for OSU to serve students interested in studying human interactions with the marine environment via a BA or BS in Marine Studies. OPAL gathered information about student interest in different areas of specialization. There is interest

among respondents for all surveyed areas (environmental conservation, environmental and social justice, political and policy issues, arts and literature, entrepreneurship, and global and transnational perspectives). Respondents showed a strong interest in obtaining a Bachelor's in Marine Studies at OSU to obtain a position in the public or nonprofit sectors.

EAB's market research reviewed job market metrics relevant to marine studies program graduates. Marine studies is a new and emerging field of undergraduate education and thus EAB's analysis was primarily focused on using environmental studies as a proxy for marine studies. The top skills frequently sought in 2017-18 by national employers were management, communications, and operations. The top two frequently sought 'hard skills' are knowledge of environmental laws and environmental education. Employers who frequently seek bachelor-level marine studies professionals include, but are not limited to, environmental consulting firms, engineering firms (project management), and nonprofits. EAB identified additional career routes often highlighted by those programs such as: 'green' business, public-interest lobbying, outdoor recreation, environmental education, consulting, and environmental planning.

4. Are there similar programs in the state? If so, how does the proposed program supplement, complement, or collaborate with those programs?

Complementary programs outside of OSU exist at three public universities in Oregon: University of Oregon, Portland State, and Western Oregon University. University of Oregon has a similar interdisciplinary approach to their Environmental Studies undergraduate degree. The UO and OSU programs complement one another and collaboration between the two could be mutually beneficial and enhance both institutions. Portland State and Western Oregon have environmental studies programs that do not incorporate the social sciences, arts and humanities. The latter two programs are not interdisciplinary but opportunities for collaboration and cooperation could exist.

All appropriate University committees and the Statewide Provosts Council have approved the proposed program. The Oregon State University Board of Trustees approved the program on June 5, 2020.

Recommendation to the Commission

The Statewide Provosts Council recommends that the Oregon Higher Education Coordinating Commission authorize Oregon State University to establish an instructional program leading to a Bachelor of Arts or a Bachelor of Science (BS) in Marine Studies effective Spring 2021.

Revised May 2016



Proposal for a New Academic Program

Institution: Oregon State University

College/School: College of Liberal Arts

Department/Program Name: College of Liberal Arts, Marine Studies

Degree and Program Title: Bachelor of Arts and Bachelor of Science in Marine Studies (MAST)

1. **Program Description**

a. Proposed Classification of Instructional Programs (CIP) number.

03.0103 Environmental Studies. A program that focuses on environment-related issues using scientific, social scientific, or humanistic approaches or a combination. Includes instruction in the basic principles of ecology and environmental science and related subjects such as policy, politics, law, economics, social aspects, planning, pollution control, natural resources and the interactions of human beings and nature.

<https://nces.ed.gov/ipeds/cipcode/cipdetail.aspx?y=55&cipid=87194>

b. Brief overview (1-2 paragraphs) of the proposed program, including its disciplinary foundations and connections; program objectives; programmatic focus; degree, certificate, minor, and concentrations offered.

What is Marine Studies?

Marine Studies is an interdisciplinary field of study that explores the dynamic relationship between people and the marine environment. As the reach of anthropogenic impacts expands from the heavily populated coast to remote regions of the ocean (e.g. deep sea, areas beyond national jurisdiction, etc.), the marine environment has become a literal as well as symbolic last frontier for exploration and exploitation. More than ever, unraveling these dynamics to better understand how people affect the ocean and, in turn, how the ocean affects humans, is essential. Conceptually, the proposed Marine Studies program contributes to this field by emphasizing the human dimensions and perspectives of coasts and oceans. These human dimensions coalesce in the social sciences, arts, and humanities, all traditionally and solidly represented in the College of Liberal Arts (CLA), to impart to students a deeper understanding of the complex social, cultural, historical, and economic nature of the marine environment. As a result of completing this degree, students: 1) will gain expertise in the humanities, arts, and the social sciences; 2) be able to create synergies between their studies in multiple liberal arts-based perspectives; 3) understand social and environmental justice as frameworks for all study and thinking about the oceans; 4) embrace the core values of ocean literacy as articulated by the International Oceanographic Commission.

What is the Bachelor's degree in Marine Studies?

The degree program is for students who are seeking expertise in methods from the arts, humanities, and/or social sciences and are keenly aware of the importance of the human dimension, broadly defined, of the marine environment in understanding the growing challenges and opportunities for the sustainability of our ocean and coasts. This program emphasizes place-based ocean literacy and

sustainability, along with critical thinking and creative inquiry and analysis, while working within and learning from a diversity of faculty, students, communities, and cultures.

c. Course of study –proposed curriculum, including course numbers, titles, credit hours

Table 1: Marine Studies Course of Study	
-	Students may matriculate as Marine Studies majors any time.
-	Students must achieve a grade of C- or higher in any course required by the major (MAST Foundation, Core, Areas of Distinction Electives, Internship, Capstone).
Program Course Requirements- BS pathway	
•	University and College required coursework* 66 credits minimum
•	CLA BS Requirements 15 credits #
•	MAST Foundation 11 credits
•	MAST Core 26 credits
•	MAST Areas of Distinction Electives 12 credits
•	MAST Internship 4 credits
•	MAST Capstone 4 credits
•	General Electives 42 credits**
•	TOTAL 180 credits
Program Course Requirements- BA pathway	
•	University and College required coursework* 66 credits minimum
•	CLA BA Requirements 24 credits #
•	MAST Foundation 11 credits
•	MAST Core 26 credits
•	MAST Areas of Distinction Electives 12 credits
•	MAST Internship 4 credits
•	MAST Capstone 4 credits
•	General Electives 33 credits**
•	TOTAL 180 credits
* this includes requirements for Liberal Arts Core and Baccalaureate Core, including a Writing Intensive Course (WIC)	
# BS requirement in CLA is minimum of 15-credits of science (1 class), computer science (1 class), and quantitative studies (2 -3 classes); BA requirement in CLA is second-year proficiency in a second language, including ASL, at the college level with at least a C-. The credit number for a BA is an estimate, which will vary based on chosen language courses.	

Coastal Experience Requirement for Marine Studies Majors

Students must ensure that at least 8 credits of coursework, in addition to the capstone and internship, have the “Coastal Experience” designation. These courses are offered either at the Hatfield Marine Science (HMSC) Center location, or they are offered at the Corvallis campus with a significant course dimension involving integration with HMSC.

Table 3. Marine Studies Core (26-credits, minimum)

a. Core survey course- Required by all majors

[New, Draft] MAST 300 Society, Culture, and the Marine Environment (4 cr)

By the end of the course students will be expected to have developed competency and knowledge in multiple fields within the, broadly defined, "human dimension of the environment". Students will also gain a deeper understanding of the concepts, methods, and intellectual contributions of literature, history, anthropology, sociology, and philosophy to our understanding of the marine environment. Students will develop critical thinking around the possible range of contributions of different disciplines within the social sciences, arts, and humanities; and how they may provide insights to address real world problems.

b. Perspectives in Marine Studies.

Students must earn at least 22 credits in these upper division core courses, with no more than two courses from any single designator. As new courses are developed, this list shall be updated. See Box A for current proposal status of each new course, including links to curriculum proposal system (for liaison records and syllabi).

Ethical, social, and environmental justice (pick two)

[New, Draft] ANTH 320 Maritime Cultures and Lifeways (4) *(coastal experience course)*

[New, Draft] ES 360 Indigenous Ocean and Coast (4) *(coastal experience course)*

[New, Draft] WGSS 341 Gender, Race, and Marine Sciences (4) *(coastal experience course)*

[New, Draft] ES/WGSS 475 Race, Gender, and Labor on the Oregon Coast (4) *(coastal experience course)*

Ecosystem services and society (pick one)

BI 347 Oceans in Peril (3) e*

Prereqs: BI 101, 102, 211, 211H, 213, 213H, 204 or 150

FW 323 Management Principles of Pacific Salmon in the Northwest (3) e

FW 324 Food from the Sea (3) *

OC 333 Oceans, Coasts, and Peoples (3)

Literature, history, and arts of the sea (pick one)

[New, Draft] HST 314 Maritime Histories of the Pacific (4) e

[New, Draft] ENG 340 Literatures of the Coast (4) *(coastal experience course)*

[New, Draft] WR 460 Writing of the Sea (4)^

Politics and Policy (pick one)

PPOL 446 Policy and Law of US Coastal Governance (4) e

PPOL 448 Marine Policy in the United States (4) e

Plus: One additional course from any of these categories

Additional courses are actively in development within the schools of Writing, Literature, Film; Arts & Communication; and History, Philosophy, & Religion.

Specialization through 'Areas of Distinction' (minimum 20 credits)

Through specialization, undergraduate students will be engaged in designing their own education. Students will work with faculty and advisors to define career and life goals and then develop a course of study to achieve those goals.

Specializations must contain at least 20 credits, be upper division, and focus on issues of the ocean and coasts. Specializations should adhere to the following criteria: be trans- or interdisciplinary, use approaches from the social sciences, arts and/or humanities to examine human interactions with the environment, demonstrate experience and professional/personal skill development in a marine context, be approved by the Marine Studies Degree Coordinating and Oversight Committee.

Description of specializations

Table 4. Marine Studies Specialization Through ‘Areas of Distinction’

Marine Studies Electives, 12-credits minimum

Students must take advanced courses to further contextualize their marine focus and gain additional specific expertise toward their education goal(s). These electives should not be drawn from the above Core and Foundation classes and cannot count toward Baccalaureate Core or Liberal Arts requirements. If courses are completed prior to approval of the specialization, students shall include in their specialization plan a clear description of how these courses directly serve the specialization. A list of approved courses is included in Table 6. In following pages, we also provide example groupings of electives within specialization areas. In each area of specialization a minimum of eight (8) elective credits must be from the College of Liberal Arts.

Internship (4 credits, minimum)

[New] MAST 410 Internship in Marine Studies: Students are required to take a minimum of 4 credits. Internship possibilities include working on a volunteer or paid basis in a museum, a nonprofit organization, a public agency, a business, or as a research assistant. The internship must be focused on a marine issue and include visits and/or residency in a coastal location. The student should clearly identify how the internship contributes to their intellectual or career goals and be able to reflect on their experience in the context of social and environmental ethics. Internships will be developed in consultation with and approved by the Marine Studies undergraduate advisor.

Capstone (4 credits)

Students are required to enroll in [New, Draft] MAST 425 Marine Studies Capstone Experience. This is a capstone course in which the student engages in a substantial project, aligned with the student’s chosen area of specialization, integrating experiential learning with intensive study of social, political, and/or cultural issues of the ocean and coasts. Most issues we face in Marine Studies require insights from multiple perspectives and disciplines. Students in the capstone course will integrate the perspectives of the Marine Studies Core and Electives, in order to achieve a culminating undergraduate research project for their major. In addition to producing original work that clearly articulates and explores a research question, the student will provide proof of consideration of ethical and social dimensions of the project; demonstrate how the experiential component contributed to the project; include a discussion of methods; and provide a clear statement of argument that identifies the project’s principal findings.

d. Manner in which the program will be delivered, including program location (if offered outside of the main campus), course scheduling, and the use of technology (for both on-campus and off-campus delivery).

The program will be offered by the College of Liberal Arts at the OSU-Corvallis campus, with classes offered on campus, online, and at Hatfield Marine Science Center. If a student chooses, the major can be completed by a combination of on-campus (OSU- Corvallis) and online courses, noting that some time will need to be spent at the coast through coastal experience and internship requirements.

e. Adequacy and quality of faculty delivering the program

Housed in the College of Liberal Arts, the Marine Studies (MAST) major focuses on the dynamic relationship between people and the marine environment. The MAST program is designed to leverage existing faculty strength and classes offered throughout CLA and OSU. Most of the Marine Studies degree foundational and core courses will be taught by tenure-track or full-time instructors at OSU who currently teach, or have proposed to teach, a relevant class within their own disciplines.

A key feature in the MAST curriculum is the layering of coursework in the social sciences, arts, humanities, and natural sciences. The strong connections necessary for curricular delivery as well as disciplinary resonance with colleges and units across campus.

f. Adequacy of faculty resources – full-time, part-time, adjunct.

Because of its curricular focus to include courses from different disciplinary programs across OSU, the major will rely on faculty members with academic homes throughout the Corvallis campus and at the

Hatfield Marine Science Center. “MAST-affiliated faculty” are those faculty who currently are developing and/or we anticipate soon developing Foundational, Core, and Capstone courses for the major.

g. Other staff

N/A

h. Adequacy of facilities, library, and other resources.

Capital Planning and Development has determined that there is adequate space for initial delivery of this program in existing facilities.

Library resources were evaluated for this proposal. This program will be supported by the Valley Library in Corvallis, the Guin Library in Newport, and the electronic resources available through OSULP Libraries.

i. Anticipated start date.

Spring 2021

2. Relationship to Mission and Goals

a. Manner in which the proposed program supports the institution’s mission, signature areas of focus, and strategic priorities.

Oregon State is a land grant institution whose mission to care for the natural environments of Oregon parallels a commitment to the state’s communities and the well-being of its people. The proposed program in Marine Studies supports the university’s mission as stated in Strategic Plan 4.0: Marine Studies “promotes economic, social, cultural and environmental progress for the people of Oregon, the nation and the world.” Drawing on strongly-developed ocean and coastal science fields at OSU while partnering with the arts, humanities and social science strengths in the College of Liberal Arts, the Marine Studies (MAST) major in CLA will be uniquely poised to offer an innovative and transdisciplinary approach focused on understanding human interactions with all matters marine. This degree program welcomes and prepares all learners to explore the marine world through engagement with the natural sciences, social sciences, and the humanities and arts disciplines. The program: 1) offers a distinctive marine experience accessible to all students; 2) advances innovative research and critical inquiry focused on marine environments and communities; 3) invests in community-based collaborations and scholarship through experiential learning and professional development.

The Marine Studies Degree Program Advances Multiple of OSU’s Goals for Strengths in 2030

Revolutionary Earth Systems Science – A Marine Studies program in CLA offers students a strong foundation about the systems, cultures, people, communities and histories that are vital to understanding the human dimension of marine ecosystems.

Leading in Health and Wellness – The Marine Studies degree fosters communities of dialogue and intellectual exchange among faculty across campus (through teaching and research collaborations), as well as among diverse students drawn from all OSU colleges. In this context, the Marine Studies degree program emphasizes development of mindful, informed citizenship and scholarship through experiential, collaborative, and problem-solving learning opportunities.

Advancing Economic Prosperity and Social Progress — The Marine Studies degree prepares graduates to participate in innovative public and private partnerships while addressing global challenges with creative solutions that attend to the needs of interrelated communities and essential but often diminishing natural resources.

b. Manner in which the proposed program contributes to institutional and statewide goals for student access and diversity, quality learning, research, knowledge creation and innovation, and economic and cultural support of Oregon and its communities.

Coastal and ocean environments face unprecedented opportunities and threats. Consequently, they are providing increasingly more complex policy and management challenges that are demanding of an ocean literate constituency. New approaches need to be developed to manage the ocean's resources wisely, and equally imperative is growing the next generation of leaders who can bridge disciplines to create solutions for the future. Creating a strong program in Marine Studies within CLA at OSU will bring additional focus to the necessity of examining human dimensions of ocean and coasts for solving the many challenges faced by these systems.

The Marine Studies degree is designed to create, welcome and support retention of students coming from diverse backgrounds and with a range of interests. Through the social justice lens, the program's curriculum demonstrates its valuing of diverse sources and kinds of knowledge, including those historically marginalized or underrepresented.

c. Manner in which the program meets regional or statewide needs and enhances the state's capacity to:

- i. improve educational attainment in the region and state;***
- ii. respond effectively to social, economic, and environmental challenges and opportunities; and***
- iii. address civic and cultural demands of citizenship.***

The Marine Studies undergraduate degree program foregrounds the Signature Areas of OSU's strategic plan ---advancing the science of sustainable earth ecosystems, improving human health and wellness, and promoting economic prosperity and social progress – as the institution's greatest opportunities to lead in solving complex problems for Oregon while creating excellent learning opportunities for students. Specifically, this program will train a new generation of ocean literate leaders with skills for navigating diverse professional fields with socially engaged, multidisciplinary, and practical views and experiences.

The Marine Studies major offers its students course work, experiential learning opportunities, and faculty mentorships that prepare them to engage the civic and cultural demands of citizenship and societal, economic, and environmental issues with creativity and awareness. The program's capstone course, required of all majors, will provide students with mentorship and learning outcomes that articulate the value of their transdisciplinary training in terms of professional development opportunities and as citizens in diverse global economic, community and environmental contexts.

3. Accreditation

N/A

4. Need

a. Anticipated fall term headcount and FTE enrollment over each of the next five years.

Within five years of implementation, we plan to build the total annual cohort to 150 students. At that point, we will determine if we have capacity to increase cohort size.

Anticipated Marine Studies Five-Year Enrollment

Year 1: 50 Year 2: 75 Year 3: 115 Year 4: 145 Year 5: 150 Years 5+: 150

Growth in enrollment reflects (a) estimated numbers matriculating in first, second, and third years into

program and (b) degrees conferred as students complete fourth year.

b. Expected degrees/certificates produced over the next five years.

We anticipate a total of 112 degrees conferred over the next five years.

c. Characteristics of students to be served (resident/nonresident/international; traditional/nontraditional; full- time/part-time, etc.).

Students who qualify and are admitted to the program can complete the program on either a full-time or part-time basis as classes will be offered on multiple platforms. We will be actively recruiting minority and non-traditional students for the Marine Studies degree using practices honed in successfully recruiting non-traditional students to College of Liberal Arts. We also expect this degree to attract students who might not otherwise have chosen OSU—specifically, students with deep interests in learning about issues of the coasts and ocean yet interested in a Liberal Arts education and emphases on social sciences, arts and/or humanities.

d. Evidence of market demand.

Expanding opportunities in coastal and ocean economies e.g. “Blue Economy”¹, and increasing public awareness of ocean issues are driving students to pursue learning about the sea.

We conducted several types of ***needs assessments***, by two different groups, to assess the market viability of a bachelor’s-level marine studies program. The two groups were EAB (<https://www.eab.com/>) and the OSU Policy Analysis Laboratory (<https://liberalarts.oregonstate.edu/spp/opal>). The OSU Policy Analysis Laboratory conducted a survey of currently enrolled OSU students. In summary, there is opportunity for OSU to serve students interested in studying human interactions with the marine environment, via a BA or BS in Marine Studies. OPAL was also able to gather some information about student interest in different areas of specialization. There is interest among respondents for all surveyed areas (environmental conservation, environmental and social justice, political and policy issues, arts and literature, entrepreneurship, and global and transnational perspectives). Respondents showed a strong interest for obtaining a Bachelor’s in Marine Studies at OSU to obtain a position in the public or nonprofit sectors.

EAB’s market research, using Emsi Analyst, reviewed job market metrics relevant to marine studies program graduates. Because marine studies is a new and emerging field of undergraduate education, EAB’s analysis was mainly focused on using environmental studies as a proxy for marine studies. The top skills frequently sought in 2017-18 by national employers are management, communications, and operations. The top two frequently sought ‘hard skills’ are knowledge of environmental laws and environmental education. Employers who frequently seek bachelor’s level marine studies professionals include environmental consulting firms, engineering firms (project management) and nonprofits. EAB also identified additional career routes often highlighted by those programs such as: ‘green’ business; public-interest lobbying; outdoor recreation, environmental education; consulting; environmental planning.

e. If the program’s location is shared with another similar Oregon public university program, the proposal should provide externally validated evidence of need (e.g., surveys, focus groups, documented requests, occupational/employment statistics and forecasts).

The program’s location is not shared with other similar Oregon public university programs.

¹ For example, in the US in 2016, the ocean economy employed more people than the sum of employments in the economic sectors of crop production, telecommunications, and building construction. NOAA, 2019. “NOAA Report on the US Ocean and Great Lakes Economy”. <https://coast.noaa.gov/data/digitalcoast/pdf/econ-report.pdf>

f. Estimate the prospects for success of program graduates (employment or graduate school) and consideration of licensure, if appropriate. What are the expected career paths for students in this program?

The Marine Studies undergraduate major has created both academic learning and professional outcomes that offer students broad application of skills across fields, as well as the opportunity to specialize and distinguish themselves in “niche” markets. The program has identified some professional and intellectual “pathways” or tracks students might pursue and whose themes are represented in the course work options and the applied learning experiences that are unique to the marine coastal learning priorities of the major. These include developing areas of knowledge and experience in areas including policy and management, entrepreneurship, environmental and social justice, among other possible areas of distinction as discussed in the course of study section. Within these areas, the skills students learn have direct application in marine coastal contexts. Yet, in keeping with the liberal arts commitments of this major and OSU Learning Goals for Graduates, the skills are applicable to a range of fields and settings where creative design, transdisciplinary approaches, collaboration, management and organization, communication, and social accountability would be valued.

5. Outcomes and Quality Assessment

a. Expected learning outcomes of the program:

1. Demonstrate critical thinking regarding human interactions with the marine environment that is grounded in knowledge of its unique character and natural properties.
2. Critically explore historical and contemporary issues in marine studies.
3. Apply a range of social science and art/humanities methods to the study of humans in the marine environment.
4. Integrate human interactions with the marine environment from a range of social science and arts/humanities-based perspectives, taking into account matters of ethical, social, and environmental justice.
5. Demonstrate experience and professional/personal skill development in a marine context.

b. Methods by which the learning outcomes will be assessed and used to improve curriculum and instruction.

Learning outcomes for the Marine Studies degree will be assessed annually by the Marine Studies Program Committee (MAST Committee). At least one undergraduate student will also serve on the Academic Committee to represent the student perspective on the design, assessment, and implementation of the program. Information about the program including number of matriculates, educational plans, classes taken/ preferred by students, grades and GPAs, retention and graduation rates, as well as post-graduation employment, will be tracked by an advisor and reviewed by the MAST Program Coordinating and Oversight Committee on an annual basis. That same group will attend and respond to direct measurements in specific courses. Information obtained from these annual assessments will be used to improve the new degree’s curriculum and instruction approaches, as key issues arise.

c. Nature and level of research and/or scholarly work expected of program faculty; indicators of success in those areas.

The MAST degree will draw from faculty across the university. Indeed, per university-wide guidelines, we expect that in addition to teaching in their home programs, tenure-track program faculty will continue to conduct scholarship relevant to their own areas of specialty and instructors will continue professional development, in either pedagogical or scholarly pursuits. Overall, indicators of faculty success will include

all manner of activities that promote and support the goals of the MAST degree, including (but not limited to): Publications in disciplinary and/or interdisciplinary journals and books, as well as other scholarly production relevant to the field; participation in professional meetings, conferences, and workshops; obtaining external funding for research and outreach activities; involvement and active engagement in local, national, and international organizations and committees relevant to their fields and marine studies.

6. Program Integration and Collaboration

a. Closely related programs in this or other Oregon colleges and universities.

Environmental Studies Programs at other Oregon universities and colleges are relevant to the proposed Marine Studies major as academic disciplinary spaces for integrated approaches to the study of the relationship between people and their natural environment. Examples of programs include: Environmental Studies major/minor programs at University of Oregon, Lewis and Clark University, Portland State, Western Oregon University, and Reed College.

Oregon State University is home to several highly ranked Bachelor of Science degrees that give earth and life science-based training about different aspects of the coasts and ocean, including foci on human interactions with the environment using scientific approaches. These programs at OSU are among the few intensive marine and environmental science undergraduate programs in the country (i.e., OSU's Marine Biology, Environmental Sciences, Fisheries and Wildlife, and Ocean Science undergraduate degrees) and offer opportunities to conduct research with faculty and graduate students.

b. Ways in which the program complements other similar programs in other Oregon institutions and other related programs at this institution. Proposal should identify the potential for collaboration.

Currently, no other program of its type exists at other Oregon institutions or within OSU. As outlined in the previous section, Environmental Studies programs at Oregon universities most closely resemble the structure and objectives of the proposed MAST degree. The key factor is the unique exploration and understanding of the dynamic relationship between people and the marine environment through distinctive artistic, humanistic, and social scientific approaches.

We expect an integrated program partnership with the coastal campus of Hatfield Marine Science Center and strong collaborations with University of Oregon at both the undergraduate and graduate levels. University of Oregon in particular offers both OSU's Hatfield and its proposed Marine Studies program mutually beneficial opportunities for collaboration among students, faculty and coast communities.

Following, we describe five existing programs across Oregon that are complementary to our proposed major:

1. **University of Oregon** offers a major/minor in Environmental Studies with a graduate offering in Environmental Humanities. This program shares similarities with our proposed Marine Studies major in that it emphasizes an interdisciplinary approach that integrates arts, humanities and social sciences with natural science fields. It also emphasizes civic leadership and a strong experiential learning component with well-established partnerships for collaboration. These include an Environmental Leadership Program, Food Studies Program, a Tribal Climate Change Program, and mentorship through their graduate program in Environmental Humanities. They also offer field internships and research experience through the Oregon Institute of Marine Biology (OIMB). Relevant classes may be acceptable for transfer; moreover, there are significant opportunities for collaboration through the OIMB field experience and OSU's coastal campus at Hatfield Marine Science Center. Their internship programs suggest related commitments to issues of civic leadership and social justice suggesting that future collaboration could be mutually beneficial and enhancing of both institutions.

2. **Portland State University's** Environmental Studies program emphasizes resource management and policy development with courses drawn from the natural sciences, social sciences, geography, and

environmental policy. It does not significantly integrate the arts and humanities, nor does it offer a marine coastal emphasis. Its professional outcomes focus on preparing students for positions in forest resource management, urban environmental management and planning, environmental policy and land use.

3. **Western Oregon University's** Environmental Studies Program offers a minor in its Division of Social Sciences, with an interdisciplinary approach to understanding humans and their relationship to the environment.

4. **Oregon State University** offers particular strengths in the marine sciences. As described in the above section, several undergraduate training programs exist at OSU to provide students with expertise in science, conservation and management within earth/life and marine science contexts. Marine Studies degree is able to utilize courses available from their programs. The proposed program is differentiated from these existing programs by its focus on learning grounded in the social sciences, arts, and humanities approaches, as they relate to human interactions with the marine environment. We also expect that new courses designed for the Marine Studies degree may be adopted into curricula of marine-related degree programs within COS, CEOAS, CAS, and COF.

5. Moreover, **Hatfield Marine Science Center, OSU's coastal campus**, offers opportunities for experiential learning, research, and professional mentoring opportunities. HMSC has its own research faculty stationed on the coast, and it offers year-long field opportunities for students. It attracts international scholars as well, and thus will provide Marine Studies opportunities for international collaborations, including potential internships. The proposed Marine Studies program can utilize the coastal campus for courses, field research and internships.

c. If applicable, proposal should state why this program may not be collaborating with existing similar programs.

N/A

d. Potential impacts on other programs.

Marine Studies at OSU will be distinguished for its integrated approach to interdisciplinary studies, for its commitment to civic engagement and social justice, and for its rich opportunities for experiential learning at the coast, and professional development. This proposed program will uniquely enrich the Land Grant institutional community—for example, by further advancing education about coastal and ocean issues through the integration of liberal arts².

7. External Review

N/A

² For example: Among the land grant institutions, Ohio State University offers an Environmental Studies program that emphasizes core studies in the natural sciences with integrated course work primarily in the social sciences. Its Voinovich School of Leadership and Public Affairs offers a valuable resource for a public policy emphasis to their program. However, they do not offer a particular marine coastal focus, nor do they have integration of approach that significantly includes the arts and humanities.

Institution: Oregon State University

Program: Bachelor of Arts or Bachelor of Science in Marine Studies

Action: At the **August 18, 2020** meeting, the Statewide Provosts Council approved a new program for **Oregon State University, BA/BS in Marine Studies** to move forward to the Oregon Higher Education Coordinating Commission for its review and approval. The **Oregon State University** Board of Trustees approved the **BA/BS in Marine Studies** program at its **June 5, 2020** meeting.

Eastern Oregon University

Sarah Witte, provost

Approved
 Opposed
 Abstained



Oregon Health & Science University

Elena Andresen, interim provost

Approved
 Opposed
 Abstained



Oregon State University

Ed Feser, provost

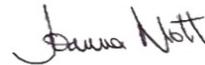
Approved
 Opposed
 Abstained



Oregon Tech

Joanna Mott, provost

Approved
 Opposed
 Abstained



Portland State University

Susan Jeffords, provost

Approved
 Opposed
 Abstained



Southern Oregon University

Susan Walsh, provost

Approved
 Opposed
 Abstained



University of Oregon

Patrick Phillips, provost

Approved
 Opposed
 Abstained



Western Oregon University

Rob Winningham, provost

Approved
 Opposed
 Abstained

