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USFT Prog Proposal CAS Integrative Bio Marine Biology BS 20190822

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X. Non-Faculty Resources

A. Describe library resources currently available to implement and/or sustain the proposed program through Year 5. Provide the total number of volumes and serials available in this discipline and related fields. List major journals that are available to the university's students. Include a signed statement from the Library Director that this subsection and subsection B have been reviewed and approved.

Part I – Overview of USF Libraries, Mission, and Program/Discipline Strengths

The University of South Florida (USF) is accredited by the Southern Association of Colleges and Schools' Commission on Colleges to award associate, baccalaureate, master's, specialist and doctorate degrees. The institution was initially accredited in 1965 and was last reviewed and reaffirmed in 2015.

The University of South Florida Libraries consist of USF's main research library and the Hinks and Elaine Shimberg Health Sciences Library, both located on the Tampa Campus; the Nelson Poynter Memorial Library, USF St. Petersburg campus; and an Information Commons at the USF Sarasota-Manatee campus.

The USF Libraries inspire research, creativity, and learning by connecting the USF community to relevant and high-quality information. Our vision is to become the center of a highly engaged university community, driven to produce high-impact research and to nourish creativity. Together, the USF Libraries provide access to more than 2 million volumes and an extensive collection of electronic resources including approximately 64,928 e-journal subscriptions and over 900 aggregator databases containing another 92,855 unique e-journal titles, 693,313 e-books, and 826,000 digital images. In addition, students have access to over 83,000 audio/visual materials including electronic media, music scores, audiobooks, CDs, and DVDs.

The USF Libraries endeavor to develop and maintain a research collection that satisfies the resource needs of the undergraduate and graduate curriculums in College of Arts and Science Department of Integrative Biology and also meets the specialized needs of the students and faculty for a Bachelor of Science program in Marine Biology.

Part II - USF Libraries' Collections

MONOGRAPHS (Print and Ebooks)

The USF Library contains extensive holdings of books in both print and e-book format that support student and faculty instructional and research needs in the new program. To identify the scope of relevant books, titles were derived from searching the library's catalog by Library of Congress Subject Headings relevant to Marine Biology studies.

MONOGRAPHIC COUNTS		
Library of Congress Subject Headings for Marine Biology		
LC Subject Headings	Print	Electronic
Marine Biology		
Marine Science		
Oceanography		
Aquatic Ecology		
Fishes & Ecology		
Totals	2,236	21,355

Total Number of Monographs

- Print = 2,236
- Electronic = 21,355

Ebooks and Ebook Collections

- Cambridge Core Ebooks
- EBSCO Ebook Collection
- Oxford Scholarship Online and University Press Scholarship Online
- ProQuest Ebook Central
- ScienceDirect
- SpringerNature eBooks including Collection in Biomedicine & Life Sciences
- Taylor & Francis and CRCNetBase eBooks
- Wiley Online Library

MAJOR SERIAL TITLES (JOURNALS)

The USF Libraries subscribe to several scholarly and professional journals that have an editorial scope and content which support curricular activities at the Bachelor of Science level. A majority of the titles are in electronic format thereby enhancing accessibility. Journal titles were derived by searching Scopus SciMago and Web of Science JCR ranked journals for curriculum topics in Marine Biology.

Serial Title Subscriptions

- xx Journal Titles (electronic format)

MAJOR SERIAL TITLES			
Title	SJR	H Index	Library Access
Annual Review of Marine Science			01/01/2009 - present
Journal of Great Lakes Research			01/01/2006 - 12/31/2010
Fish and Fisheries	3.242	91	01/01/2000 - present
Progress in Oceanography	2.357	120	01/01/1995 - present
Limnology and Oceanography	1.961	179	01/01/1956 - present
Journal of Geophysical Research Oceans	1.887	295	01/01/2013 - present
Harmful Algae	1.703	75	03/01/2002 - present
Freshwater Biology	1.671	139	01/01/1997 - present
CCAMLR Science	1.666	27	01/01/1994 - present
ICES Journal of Marine Science	1.591	105	01/01/1996 - present
Reviews in Fisheries Science and Aquaculture	1.558	54	01/01/2014 - present
Journal of Experimental Biology	1.482	164	01/01/1923 - present (Full Text Delay: 6 months)
Coral Reefs	1.463	101	01/01/1982 - present
Deep-Sea Research Part I: Oceanographic Research Papers	1.446	110	01/01/1993 - present
Reviews in Aquaculture	1.394	30	01/01/2009 - present
Frontiers in Marine Science	1.367	28	01/01/2014 - present
Reviews in Fish Biology and Fisheries	1.331	87	01/01/1991 - present
Fisheries Oceanography	1.316	72	01/01/1997 - present
Aquatic Toxicology	1.277	125	01/01/1995 - present
Aquatic Conservation: Marine and Freshwater Ecosystems	1.250	69	09/01/1991 - present
Marine Policy	1.242	79	01/01/1995 - present
Canadian Journal of Fisheries and Aquatic Sciences	1.225	140	01/01/2001 - present
Marine Pollution Bulletin	1.215	147	01/01/1970 - present
Journal of Marine Systems	1.203	94	06/01/1990 - present
Aquaculture	1.154	152	05/01/1972 - present
Freshwater Science	1.125	104	03/01/2012 - present

MAJOR SERIAL TITLES			
Title	SJR	H Index	Library Access
Journal of Phycology	1.123	114	01/01/1965 - present
Marine Mammal Science	1.102	70	01/01/1997 - present
Advances in Oceanography and Limnology	1.086	1	01/01/2015 - present
Marine Environmental Research	1.081	83	01/01/1995 - present
Journal of Experimental Marine Biology and Ecology	1.063	112	01/01/1967 - present
Estuaries and Coasts	1.056	94	03/01/1978 - present
Estuarine, Coastal and Shelf Science	1.052	118	01/01/1995 - present
Ecohydrology	1.050	43	01/01/2008 - present
Fish and Shellfish Immunology	1.040	103	01/01/1995 - present
Journal of Plankton Research	1.027	85	01/01/1996 - present
Fisheries Research	1.023	82	01/01/1995 - present
Marine Biology	1.019	108	01/01/1967 - present
Ocean and Coastal Management	0.984	70	01/01/1995 - present
Aquaculture Nutrition	0.961	67	01/01/1997 - present
Continental Shelf Research	0.932	100	08/01/1982 - present
Journal of Paleolimnology	0.908	76	07/01/1988 - present
Marine Biotechnology	0.908	68	01/01/1999 - present
Aquacultural Engineering	0.907	61	01/01/1995 - present
Mediterranean Marine Science	0.901	31	01/01/2000 - present
Aquaculture, Economics and Management	0.878	28	01/01/1997 - present
Hydrobiologia	0.875	125	01/01/1948 - present
Wetlands Ecology and Management	0.867	54	01/01/1989 - present
Journal of Fish Biology	0.862	100	01/01/1969 - present
Journal of Sea Research	0.837	71	02/01/1996 - present
Marine and Freshwater Research	0.828	78	01/01/1950 - present
European Journal of Phycology	0.820	66	01/01/1993 - present
Aquatic Ecology	0.815	53	01/01/1968 - present
International Review of Hydrobiology	0.806	48	01/01/1998 - present
Fisheries Management and Ecology	0.803	48	01/01/1997 - present
Marine Ecology	0.800	51	01/01/1996 - present
Biofouling	0.795	77	01/01/1997 - present
San Francisco Estuary and Watershed Science	0.780	11	01/01/2003 - present
Algae	0.778	15	01/01/1996 - present
NeoBiota	0.776	11	01/01/2011 - present
Marine Genomics	0.774	26	03/01/2008 - present
Ecology of Freshwater Fish	0.769	48	01/01/1997 - present
Marine and Coastal Fisheries	0.760	23	01/01/2009 - present

MAJOR SERIAL TITLES			
Title	SJR	H Index	Library Access
Journal of Applied Phycology	0.759	93	01/01/1989 - present
Aquatic Sciences	0.753	64	01/01/1920 - present
Transactions of the American Fisheries Society	0.751	78	01/01/1996 - present
Maritime Studies	0.750	11	01/01/2012 - present
Aquatic Botany	0.746	85	03/01/1995 - present
Aquaculture Reports	0.739	10	
Phycologia	0.736	60	01/01/1997 - present
Oceanologia	0.722	37	01/01/1971 - present
Bulletin of Marine Science	0.717	67	01/01/1951 - present
Inland Waters	0.698	18	01/01/2011 - present
Limnologica	0.681	40	01/01/1999 - present
California Cooperative Oceanic Fisheries, Investigations Reports	0.679	37	01/01/1950 - present
Journal of Fish Diseases	0.672	75	01/01/1997 - present
Water (Switzerland)	0.670	33	01/01/2009 - present
Marine Biodiversity	0.669	32	01/01/1998 - present
Aquatic Invasions	0.653	42	01/01/2006 - present
Aquaculture Research	0.646	75	01/01/1997 - present
Aquatic Biology	0.638	39	01/01/2007 - present
Helgoland Marine Research	0.623	46	01/01/1999 - present
Environmental Biology of Fishes	0.617	76	01/01/1976 - present
North American Journal of Fisheries Management	0.614	64	01/01/1996 - present
Journal of the Marine Biological Association of the United Kingdom	0.606	60	02/01/1997 - present
Journal of Limnology	0.602	39	01/01/1999 - present
Fishery Bulletin	0.591	60	01/01/1881 - present
Neotropical Ichthyology	0.589	33	01/01/2003 - present
Scientia Marina	0.580	62	01/01/1989 - present
Journal of Crustacean Biology	0.573	47	01/01/1996 - present
Marine Biology Research	0.564	31	01/01/2005 - present
Fish Physiology and Biochemistry	0.555	69	01/01/1986 - present
Fisheries	0.553	71	01/01/1997 - present
Cryptogamie, Algologie	0.547	28	01/01/2011 - present
Aquaculture International	0.542	48	01/01/1993 - present
Journal of the World Aquaculture Society	0.540	52	01/01/1997 - present
Ecohydrology and Hydrobiology	0.531	24	01/01/2006 - present
Limnology	0.530	30	01/01/2000 - present
Journal of Shellfish Research	0.508	55	01/01/2005 - present

MAJOR SERIAL TITLES			
Title	SJR	H Index	Library Access
Egyptian Journal of Aquatic Research	0.497	18	01/01/2012 - present
African Journal of Marine Science	0.488	45	01/01/2003 - present
Phycological Research	0.487	38	01/01/1995 - present
Regional Studies in Marine Science	0.483	11	03/01/2015 - present
Journal of Applied Ichthyology	0.480	55	01/01/1997 - present
North American Journal of Aquaculture	0.478	36	01/01/1999 - 12/31/2017
Crustaceana	0.472	33	01/01/1960 - present
Knowledge and Management of Aquatic Ecosystems	0.470	21	01/01/2008 - present
Polar Science	0.465	20	08/01/2007 - present
Soil and Water Research	0.460	16	01/01/2008 - present
Diatom Research	0.457	31	01/01/1997 - present
New Zealand Journal of Marine and Freshwater Research	0.457	51	01/01/1967 - present
Journal of Aquatic Animal Health	0.444	48	03/01/1996 - present
Lake and Reservoir Management	0.444	34	01/01/1997 - present
Aquatic Ecosystem Health and Management	0.427	37	01/01/1998 - present
Marine and Freshwater Behaviour and Physiology	0.417	31	01/01/1997 - present
Aquatic Living Resources	0.400	58	01/01/1988 - present
Botanica Marina	0.399	51	01/01/1995 - present
Plankton and Benthos Research	0.384	18	01/01/2006 - present
Fisheries Science	0.379	57	01/01/2005 - present
Fundamental and Applied Limnology	0.377	56	01/01/2007 - present
Ciencias Marinas	0.371	26	01/01/1974 - present
Zoosystematica Rossica	0.370	6	01/01/2004 - present
Acta Ichthyologica et Piscatoria	0.369	19	01/01/1970 - present
Marine Biodiversity Records	0.362	15	01/01/2018 - present
American Malacological Bulletin	0.358	29	01/01/2007 - present
Acta Limnologica Brasiliensia	0.354	12	01/01/1986 - present
Hydroecologie Appliquee	0.351	6	01/01/1989 - present
Aquatic Mammals	0.350	19	01/01/2009 - present
Annales de Limnologie	0.343	28	01/01/1965 - present
Iranian Journal of Fisheries Sciences	0.340	15	01/01/1999 - present
Latin American Journal of Aquatic Research	0.338	23	01/01/2008 - present
Iranian Journal of Ichthyology	0.332	8	01/01/2014 - present
Journal of Freshwater Ecology	0.326	32	01/01/1981 - present
International Aquatic Research	0.318	11	01/01/2012 - present
Journal of Integrated Coastal Zone Management	0.314	5	01/01/2007 - present

MAJOR SERIAL TITLES			
Title	SJR	H Index	Library Access
Journal of Applied Aquaculture	0.313	24	01/01/1997 - present
Turkish Journal of Fisheries and Aquatic Sciences	0.307	22	01/01/2001 - present
Journal of Aquatic Food Product Technology	0.302	27	01/01/1997 - present
Acta Oceanologica Sinica	0.295	23	01/01/2010 - present
Journal of Ichthyology	0.295	14	01/01/2006 - present
African Journal of Aquatic Science	0.288	23	01/01/2000 - present
Limnetica	0.288	28	01/01/1984 - present
Archives of Polish Fisheries	0.286	15	12/30/2008 - present
Marine Fisheries Review	0.277	29	01/01/1971 - present
Cahiers de Biologie Marine	0.269	29	01/01/1960 - present
Boletim do Instituto de Pesca	0.264	12	01/01/1971 - present
Fisheries and Aquatic Sciences	0.261	11	01/01/2009 - present
Russian Journal of Marine Biology	0.253	19	01/01/2000 - present
Aquatic Insects	0.250	18	01/01/1997 - present
Journal of Cetacean Research and Management	0.234	20	01/01/1999 - present
AACL Bioflux	0.232	12	01/01/2008 - present
Revista Ambiente e Agua	0.229	9	01/01/2006 - present
Hydrobiological Journal	0.227	7	01/01/2010 - present
Nippon Suisan Gakkaishi	0.226	23	01/01/1932 - present
Gayana	0.218	15	01/01/1999 - present
Journal of Fisheries and Aquatic Science	0.203	13	01/01/2006 - present
Pan-American Journal of Aquatic Sciences	0.203	16	01/01/2006 - present
Ribarstvo, Croatian Journal of Fisheries	0.195	9	03/30/2016 - present
Limnology and Oceanography Bulletin	0.190	6	09/01/2001 - present
Ruthenica	0.181	3	01/01/2008 - present
Hidrobiologica	0.175	13	01/01/1991 - present
Thalassas	0.170	10	01/01/2001 - present
Indian Journal of Fisheries	0.169	9	01/01/1954 - present
Revista de Biología Marina y Oceanografía	0.167	21	01/01/2001 - present
Geo-Eco-Marina	0.165	6	01/01/2003 - present
Ocean and Polar Research	0.154	11	01/01/2001 - present
Haiyang Xuebao	0.152	3	01/01/2010 - present
Boletín de Investigaciones Marinas y Costeras	0.151	12	12/01/1992 - present
Egyptian Journal of Aquatic Biology and Fisheries	0.137	1	01/01/1998 - present
Aquatic Biosystems	0.124	16	01/01/2005 - 12/31/2015

DATABASES and DIGITAL LIBRARIES

Scholarly, research and instructional activities associated with Marine Biology endeavors are supported by a number of both specialized marine and general scientific databases which provide access to indexes, journal articles, and monographs.

Key Marine Biology Databases

Aquatic Sciences and Fisheries Abstracts (AFSA)
AFSA Aquaculture Abstracts This specialized database is a bimonthly subset of the main ASFA series, specifically selecting its widely dispersed aquaculture-related information. Focusing on studies related to improving and augmenting aquatic yields, the journal provides comprehensive information on cultivating marine, freshwater, and brackishwater species. All types of source documents are surveyed to provide international perspectives on the science, practice, management, and economics of aquaculture.
ASFA 1: Biological Sciences & Living Resources For scientists involved in the cooperative management of the world's living aquatic resources, ASFA 1 provides extensive coverage of basic and applied research on aquatic organisms. All aspects of marine, freshwater, and brackish water organisms and environments are examined, including information on biology and ecology of aquatic organisms, exploitation of living resources, and related legal, policy, and socioeconomic issues.
ASFA 2: Ocean Technology, Policy & Non-Living Resources ASFA 2 coverage spans the wide-ranging fields of oceanography: physical, descriptive, dynamical, chemical, geological, and biological aspects are extensively examined, as well as limnology, ocean engineering, and specific resources.
ASFA 3: Aquatic Pollution & Environmental Quality ASFA 3 coverage includes research and policy on the contamination of oceans, seas, lakes, rivers, and estuaries.
ASFA Marine Biotechnology Abstracts Topical coverage includes marine biotechnology, molecular biology, molecular genetics, and management of marine environments.
GeoRef The GeoRef database is the most comprehensive database in the Geosciences. The database covers the geology of North America from 1693 to the present and the geology of the rest of the world from 1933 to the present. It contains earth sciences references and the index terms that describe them and it indexes many journals in 40 languages as well as new books, maps and reports.
Oceanic Abstracts Provides citations and abstracts to the international technical literature on marine and brackish-water environments. Focuses on marine biology and physical oceanography, fisheries, aquaculture, non-living resources, meteorology and geology, plus environmental, technological, and legislative topics.

General Scientific Databases

AGU Journals [1996 to current issue]
Provides access to full-text to American Geophysical Union journal articles such as: Geochemistry, Geophysics, Geophysical Research Letters (1996-) Global Biogeochemical Cycles (1996-) Journal of Geophysical Research., Journal of Geophysical Research. Biogeosciences (2005-) Journal of Geophysical Research. Oceans (1996-) Paleoceanography (1996-) Tectonics (1996-) Water Resources Research (1996-)
Scopus
Scopus is the largest abstract and citation database of peer-reviewed literature: scientific journals, books and conference proceedings. Delivering a comprehensive overview of the world's research output in the fields of science, technology, medicine, social sciences, and arts and humanities, Scopus features smart tools to track, analyze and visualize research.
SpringerLink
Provides online access to full text of journals from the Springer Publishing Group. -- USF Libraries access is based on purchase of or subscription to specific titles in SpringerLink. Access is generally back to 1997, with backfile access to selected titles.
Web of Science
The ISI Web of Science provides access to the Science Citation Expanded, Social Sciences Citation Index, and Arts & Humanities Citation Index. It enables users to search current and retrospective multidisciplinary information from approximately 8,500 of the most prestigious, high impact research journals in the world. Additional indexes include: BIOSIS Citation Index [1926 - Present] BIOSIS Previews is the online version of Biological Abstracts and Biological Abstracts/RRM (reports, reviews, and meetings), the largest collection of biological sciences records in the world. BIOSIS Previews indexes over 6000 journals covering biological research, medical research findings, and discoveries of new organisms. There is also indexing of meetings, review articles, books reviews, book chapters, software, and U.S. patents. It covers traditional biology (botany, ecology, and zoology); interdisciplinary areas (biochemistry, biomedicine, and biotechnology) and related areas (instrumentation and methods). Zoological Record [1864 - Present] Comprehensive coverage of worldwide zoological literature, including scientific journals, popular journals, monographs, books, newsletters, conferences, selected dissertations, review annuals, and reports. All major areas of zoology are represented, including: behavior, ecology, evolution, habitat, nutrition, parasitology, reproduction, taxonomy, and zoogeography. Applied topics are covered selectively, only when the study focuses on the natural biology of the animal. Selectively covered areas include immunology, biochemistry, applied biology, veterinary medicine, and toxicology. Zoological Record provides access to scientific literature from over 100 countries.

Other Digital Libraries and Journal Collections

- Elsevier's ScienceDirect
- Wiley Online Library
- Cambridge Core
- Oxford Academic Journals
- Taylor & Francis Online
- ProQuest Dissertations & Theses

B. Describe additional library resources that are needed to implement and/or sustain the program through Year 5. Include projected costs of additional library resources in Table 2 in Appendix A. Please include the signature of the Library Director in Appendix B.

As of August 22, 2019, the collections of the USF Tampa Library and affiliates are sufficient to support the new program proposal for a Bachelor of Science in Marine Biology in the Department of Integrative Biology. The Libraries maintain an exceptionally strong collection of resources and services needed to support USF as a Preeminent Research University. The librarians and Dean of the Libraries work closely with the College of Arts and Sciences to ensure all curricular and research needs are more than adequately supported. No additional resources are required to support the new program at this time. Sustained annual investments to maintain the recurring elements of this collection and to purchase newly published materials are required to preserve sufficiency. With escalating costs, typical annual increases of 3-6% are likely. Strategic investments are required as new faculty are hired and areas of emphasis evolve.