Subject: Fisheries and Mariculture

Subject Librarian Liaison: Edward Kownslar

Section I: Program Description

Fisheries and Mariculture Program students will learn the skills necessary for positions in both the public and private sectors of the fisheries and mariculture industries. The program is designed to provide students with academic range and depth in fisheries, mariculture, biology and business. The mariculture option (non-thesis) includes extensive practical hands-on training at research facilities and commercial farms for the refinement of various mariculture skills.

Student learning outcomes:
• Students will exhibit knowledge (breadth and depth) in the fields of fisheries and mariculture including an understanding of the basic skills, techniques and methods necessary for the successful management and culture of select marine species.
• Students will demonstrate the ability to conduct a thorough and complete survey of the relevant scientific literature pertaining to their approved topic of study.
• Students will submit for approval a detailed plan of their proposed study in the form of a proposal and will incorporate the scientific method into its design.
• Students will demonstrate the ability to collect, organize and interpret data and produce a thesis or professional paper from an experiment, study or project.
• Students will develop technical writing and communication skills that will benefit them in their professional careers.

The M.S. in Fisheries and Mariculture degree requires 36 semester hours of coursework, distributed as follows:
Twelve semester hours of common courses:
• BIOL 5428 Fisheries (4 semester hours)
• MARI 5102 Graduate Seminar (1 semester hour)
• MARI 5370 Mariculture (3 semester hours)
• MARI 5421 Chemistry of Natural Waters (4 semester hours)
Plus an additional twenty-four semester hours in a specific emphasis area (fisheries or mariculture):
**Fisheries area:**
Twenty semester hours of core courses, plus at least four semester hours of committee-approved electives:
- BIOL 5392 Thesis Proposal (3 semester hours)
- BIOL 5393 Thesis Research (3 semester hours)
- BIOL 5394 Thesis Submission (3 semester hours)
- BIOL 5432 Biology of Fishes (4 semester hours)

**Science and Technology**
- MARI 5436 Marine Ecological Processes (4 semester hours)
- MATH 5315 Statistical Methods (3 semester hours)
- Advanced Electives (4 semester hours)

**Mariculture area:**
Twelve semester hours of required speciality courses.
- MARI 5312 Mariculture Techniques (3 semester hours)
- MARI 5315 Aquatic Diseases and Parasites (3 semester hours)
- MARI 5314 Aquatic Animal Nutrition (3 semester hours)
- MARI 5322 Aquaculture Economics (3 semester hours)

Plus an additional three semester hours in a program-approved support course. Students with special career interests will be advised by Mariculture Program faculty concerning the selection of an appropriate graduate class. The following are examples of classes most commonly selected:
- MGMT 5310 Organizational Behavior and Communication
- MGMT 5350 Entrepreneurship
- ACCT 5312 Foundations of Accounting
- MKTG 5311 Marketing Concepts

Nine semester hours in one of two experience-related options based on the student’s career interests:

The Mariculture Internship Option focuses on development of the student’s managerial skills and techniques through nine semester hours of Internship (MARI 5398). A professional paper is required.

The Mariculture Research Option places greater emphasis on in-depth research in one or more areas of mariculture specialization, a prerequisite for further graduate study. This option requires six semester hours of Mariculture Research (MARI 5399) and three semester hours of graduate-level statistics (MATH 5315 or equivalent). A thesis is required.

(Source: 2009-2010 Graduate Catalog)
Section II: Collection Levels

Higher priority is given to collect and acquire resources (including monographs and reports) that focus on the local geographic area and the Gulf of Mexico region.

The Library is also a depository for U.S. and Texas documents. For Fisheries and Mariculture, the Library collects documents published by the U.S. Department of Agriculture and the U.S. Department of Commerce. On the state level, the library collects documents published by the Texas Parks and Wildlife Department; the Department of Agriculture; the General Land Office; and the Water Development Board.

The library adheres to library collection standards set by the State Higher Education Coordinating Board (http://www.thecb.state.tx.us/), the Southern Association of Colleges and Schools (http://www.sacs.org/), and other accreditation agencies.

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<thead>
<tr>
<th>Subject</th>
<th>Call Number Range</th>
<th>Collection Level</th>
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<tbody>
<tr>
<td>Aquaculture/Fisheries</td>
<td>SH 1 – SH 400.8</td>
<td>4</td>
</tr>
<tr>
<td>Oceanography (GC)</td>
<td></td>
<td></td>
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<td>Botany (QK)</td>
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<tr>
<td>Zoology (QL)</td>
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(Please refer to the Environmental Sciences Collection Development Policy)

(Please refer to the Biology Collection Development Policy)

Section III: Preferred Collection Formats and Languages

Preferred Collection Format(s): (1) Electronic for periodicals and indexes; (2) Print for monographs.

Lower-Priority Collection Formats: Microform

Language: English is the language of collection.
Section IV: Noteworthy Publishers:


Elsevier Science: http://www.elsevier.com

Texas A&M University Press: http://www.tamu.edu/upress/

University of Texas Press: http://www.utexas.edu/utpress/

Various University Presses: http://aaupnet.org/

Various Texas and U.S. Government Agencies


Section V: Weeding Policy
(Including Frequency of Collection Assessment):

The collections that are associated with Fisheries and Mariculture (in the Main and Reference collections) will be examined, and weeded, every three years.

Weeding criteria include (1) Currency and relevance of material to the curriculum; (2) Updated/revised editions; and (3) Physical condition of the title (please see the “Weeding” section of the General Collection Development Policy).

Section VI: Gift Policy:

The library will accept donations of materials (monographs, periodicals, etc.) in this subject area. All donors are encouraged to fill out, and sign, a form with the Technical Services Department when the library accepts those materials. If the donor allows the library to keep all donated materials, then the library has the discretion about whether to integrate those materials into the collections or use them in another capacity, such as: (1) Donating those titles to another library; (2) Including them in the annual book sale; or (3) Recycling the materials if no other parties or organizations can use the materials. However, the donor can also specify on the form that they would like all donated materials returned to them if the library cannot add those materials to the collections.

The library will add gift books to the collections only if they support the curriculum and student research in Fisheries and Mariculture.

The Library will generally add print periodical titles to its collections under the following conditions: (1) The library already has a current subscription to that title; (2) The library
has determined that there is adequate room for older print volumes of that title; (3) The library does not own those titles but they fit the subject’s selection criteria.

Revised by E. Kownslar, 8/3/2009.

Approved by Library Director, 8/15/2009.