NOTE: This policy will cover the Biology and Biomedical Sciences programs at Texas A&M University – Corpus Christi.

Section I: Program Descriptions

Biology

Description of Undergraduate Program: “The biology program provides diverse training for careers in the biological sciences. The biology curriculum includes content courses required for (1) teacher certification in life science, (2) acceptance to post-graduate studies and (3) pre-professional studies in preparation for admission to professional schools.

“Students will acquire content and skills to enter a variety of biology-related careers such as research, marine biology, wildlife and coastal management, environmental protection, laboratory technician, biotechnology industry, medical or environmental microbiology, technical writer, pharmaceutical sales, careers in the medical, dental and allied health fields and science education.

“Field and laboratory courses emphasize the development of practical skills in using special materials and equipment. Focus is on enhancement of critical thinking skills, which will prepare the student for careers in the biological sciences as well as in other general areas of employment.” (Source: 2006-2007 Undergraduate Catalog)

Tracks Offered for Undergraduate Major:

Ecology
Marine Biology
Cell/Molecular Biology
Microbiology
Animal Biology
Plant Biology
Integrative Biology
General Biology

(Source: 2006-2007 Undergraduate Catalog)

Undergraduate Catalog Course Listings for Biology:

http://lsci.tamucc.edu/Main/TwoYear#BIOLU

Description of Graduate Program: “The Master of Science in Biology is designed for graduate students who wish to become knowledgeable leaders and professionals with an in-depth education, and specialized skills in the field of biology. This program promotes competency in the application of scientific methods of investigation to studies in biology with an emphasis on urban and coastal issues. Students develop a sense of creative independence that will allow them to practice in and contribute to a variety of professions and fields of scholarship.” (Source: 2006-2007 Graduate Catalog)

Tracks Offered for Graduate Major in Biology:

There are no formal tracks listed in the graduate catalog. According to the catalog:

“After admission to the graduate program, the Biology Graduate Coordinator will advise the student in all matters relating to degree requirements and procedures until a formal advisory committee is formed. By the end of the first semester of graduate study, the student in consultation with the Graduate Coordinator will select at least three full-time faculty members who (with their consent) will form the student’s Graduate Advisory Committee. This committee will advise the student in all matters pertaining to graduate requirements and procedures. The committee will recommend a Degree Plan for the student that will then be submitted to the Dean of the College of Science and Technology for approval. There are two plans for obtaining the Master’s Degree in Biology: the Non-Thesis Plan and the Thesis Plan.” (Source: 2006-2007 Graduate Catalog)

Graduate Catalog Course Listings for Biology:

http://www.tamucc.edu/catalog/catalog07/graduate/grad_programs/sci_tech/biology.html
Biomedical Sciences

Description of Undergraduate Program: “The Biomedical Sciences Program serves the Coastal Bend region, the state of Texas, and the nation by preparing students for biomedical career opportunities including health services, research, forensic science, genetic engineering, biotechnology, bioinformatics, product sales, and services dealing with analysis, assessment and inspection. A few biomedical careers are available to a student with a baccalaureate degree, but most will require the student to complete post-baccalaureate course work or to earn a graduate degree. Core courses in biology and chemistry provide students with critical thinking skills in the pure sciences; specific courses allow students to further develop these skills and utilize them in solving problems. This unique combination provides students with a strong conceptual framework and also allows students to focus upon applied biomedical sciences. The three options in the Biomedical Sciences Program prepare students (1) to enter post-baccalaureate or graduate programs in the health professions (e.g., medicine, dentistry, pharmacy, physician assistant, physical therapy, occupational therapy, etc.) or in related sciences; (2) for post-baccalaureate certification in clinical laboratory sciences; and (3) for careers and/or graduate training in forensic science and related areas.”
(Source: 2006-2007 Undergraduate Catalog)

Undergraduate Catalog Course Listings for Biomedical Sciences:

http://www.tamucc.edu/catalog/catalog07/undergraduate/ug_programs/courses_b.html#bi ms

Description of Graduate Program: The University offers graduate courses in Biomedical Sciences, but it does not offer a master’s degree in this subject. According to the graduate catalog: “Graduate courses in biomedical sciences are offered in support of graduate degree programs in biology, environmental science, nursing and health sciences, and education. For details concerning these particular degree programs, consult the appropriate section of the catalog.”
(Source: 2006-2007 Graduate Catalog)

Graduate Course Listings for Biomedical Sciences:

http://www.tamucc.edu/catalog/catalog07/graduate/grad_programs/sci_tech/biomedical.html
Section II: Collection Levels

The designated collection levels will provide the appropriate support for the University’s academic programs. These levels are ideal collection targets and are dependent on funding.

Resources that focus on Texas, the Gulf of Mexico, the Gulf Coast (from Texas to Florida), and the local geographic area have a higher collection level priority (between 3 and 5) than the titles that cover other geographic areas or are more general in scope.

The Biology program supports other interdisciplinary programs, such as Environmental Science (ESCI). However, the ESCI program is not included in this policy. For more information, please consult the collection development policy for Environmental Science.

Other Subjects Not Included in This Policy:

Environmental Chemistry (Please refer to the Chemistry Collection Development Policy)

Environmental Geology (Please refer to the Geology Collection Development Policy)

<table>
<thead>
<tr>
<th>Subjects</th>
<th>LC Call Number Range</th>
<th>Collection Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>QH Natural History</td>
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<td></td>
</tr>
<tr>
<td>General Natural History</td>
<td>QH 1 – 72</td>
<td>3</td>
</tr>
<tr>
<td>Biogeography</td>
<td>QH 84.1 – 198</td>
<td>3</td>
</tr>
<tr>
<td>Microscopy</td>
<td>QH 201 – 278.5</td>
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</tr>
<tr>
<td>Biology (General)</td>
<td>QH 301 – 314</td>
<td>3</td>
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<tr>
<td>Study and Teaching</td>
<td>QH 315 – 319</td>
<td>2</td>
</tr>
<tr>
<td>Biological Laboratories</td>
<td>QH 320 – 323.5</td>
<td>3</td>
</tr>
<tr>
<td>Methods of Research</td>
<td>QH 324 – 324.9</td>
<td>4</td>
</tr>
<tr>
<td>Origins of Life</td>
<td>QH 325</td>
<td>3</td>
</tr>
<tr>
<td>Bioethics</td>
<td>QH 332</td>
<td>2</td>
</tr>
<tr>
<td>General Biochemistry: Plants &amp; Animals</td>
<td>QH 345</td>
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</tr>
<tr>
<td>Morphology</td>
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<tr>
<td>Population Biology</td>
<td>QH 352</td>
<td>2</td>
</tr>
<tr>
<td>Evolution</td>
<td>QH 353 – 434</td>
<td>4</td>
</tr>
<tr>
<td>Genetics</td>
<td>QH 436 – 470</td>
<td>4</td>
</tr>
<tr>
<td>Reproduction, Development, Morphogenesis</td>
<td>QH 471 – 531</td>
<td>2</td>
</tr>
</tbody>
</table>
### Ecology

- Title: Ecology
- Call Number: QH 540 – 549.5
- Sections: 4

### Cytology

- Title: Cytology
- Call Number: QH 573 – 705
- Sections: 3

### QK Botany

#### General Botany

- Title: General Botany
- Call Number: QK 1 – 45.2
- Sections: 2

#### Special Topics

- Title: Special Topics
- Call Number: QK 46 – 46.5
- Sections: 2

#### Classification

- Title: Classification
- Call Number: QK 91 – 97.5
- Sections: 3

#### Pictorial Guides/Atlases

- Title: Pictorial Guides/Atlases
- Call Number: QK 98
- Sections: 2

#### Poisonous Plants

- Title: Poisonous Plants
- Call Number: QK 99- 100
- Sections: 3

#### Geographic Distribution, Photogeography

- Title: Geographic Distribution, Photogeography
- Call Number: QK 101 – 474.5
- Sections: 3

#### Spermatophyta

- Title: Spermatophyta
- Call Number: QK 474.8 – 495
- Sections: 3

#### Cryptograms

- Title: Cryptograms
- Call Number: QK 504 – 635
- Sections: 3

#### Plant Anatomy

- Title: Plant Anatomy
- Call Number: QK 640 – 673
- Sections: 4

#### Plant Physiology

- Title: Plant Physiology
- Call Number: QK 710 – 899
- Sections: 4

#### Plant Ecology

- Title: Plant Ecology
- Call Number: QK 900 – 989
- Sections: 4

### Zoology

- Title: Zoology
- Call Number: QL 1 – 991
- Sections: 4

(Note: QL 81.5 – QL 84.7 are outlined in the Environmental Sciences Policy)

#### Human Anatomy

- Title: Human Anatomy
- Call Number: QM 1 – 695
- Sections: 3

#### Physiology

- Title: Physiology
- Call Number: QP 1 – 801
- Sections: 3

#### Microbiology

- Title: Microbiology
- Call Number: QR 1 – 502
- Sections: 4

#### Premedical Education/Admissions

- Title: Premedical Education/Admissions
- Call Number: R 837.8 – 838.5
- Sections: 2

### Section III: Preferred Collection Formats and Languages

**Preferred Collection Format(s):** Electronic, Print

**Lower-Priority Collection Formats:** Microform

**Language:** English
Section IV: Noteworthy Publishers

Cambridge University Press:  www.cambridge.org
Elsevier:  www.elsevier.com
Nature:  www.nature.com
Springer:  www.springer.com
Taylor and Francis (includes CRC Press and Routledge): http://www.taylorandfrancis.co.uk/
Wiley:  www.wiley.com
Various University Presses

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

The collections for biology (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 biology.

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: July 11, 2007, by E. Kownslar.

Approved by the Library Director: August 1, 2007.