Department of Chemistry and Biochemistry

FY: 2009

Subject Librarian: Selene Hinojosa (gh14@txstate.edu)
Faculty Representative: Dr. L. Kevin Lewis (ll18@txstate.edu)

Total Allocation amount: $13,824

Target Dates: One third of department allocation will be spent by each of the following dates:

Date 1 - Dec. 19, 2008
Date 2 – March 31, 2009
Date 3 – May 30, 2009

A. Program Purpose and Description

“The desired learning outcomes for Chemistry and Biochemistry majors are as follows:

1. knowledge of the fundamentals of inorganic, organic, analytical, physical and biochemistry
2. the ability to perform both qualitative and quantitative laboratory procedures
3. the ability to synthesize, purify, and/or characterize a variety of chemical compounds
4. the ability to search the chemical literature and accurately cite published information
5. the ability to accurately and thoroughly describe experimental procedures
6. the ability to critically evaluate and report experimental results
7. the ability to interpret and solve chemistry problems
8. familiarity with the process of conducting research through directed study under the supervision of a chemistry or biochemistry professor”

- Undergraduate Program
- Graduate Program

B. General Selection Criteria: material collected in support of

- BA, major in Chemistry
- BS, major in Chemistry
- BS, major in Biochemistry

Minors Offered

- Chemistry
- Biochemistry
  - Master of Science in Chemistry
  - Master of Science in Biochemistry
C. Specific Selection Criteria, include but are not limited to:

- Spectroscopy
- Metabolism
- Physical Chemistry
- Physical Chemistry of Polymers
- Molecular Biology
- Environmental Chemistry
- Organic Chemistry
- Inorganic Chemistry
- Quantitative Analysis (gravimetric and volumetric analysis in chemistry)

D. Call Numbers for Chemistry/Biochemistry programs:

<table>
<thead>
<tr>
<th>LC numbers</th>
<th>Description</th>
<th>Collecting Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>QD1-65</td>
<td>General chemistry</td>
<td>2,3</td>
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<tr>
<td>QD71-142</td>
<td>Analytical Chemistry</td>
<td>2,3</td>
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<td>QD146-197</td>
<td>Inorganic chemistry</td>
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<td>QD241-441</td>
<td>Organic chemistry</td>
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<td>QD415-436</td>
<td>Biochemistry</td>
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<td>QD450-801</td>
<td>Physical and Theoretical</td>
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<td>QD625-655</td>
<td>Radiation chemistry</td>
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<td>QD701-73</td>
<td>Photochemistry</td>
<td>2,3</td>
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<tr>
<td>QD901-999</td>
<td>Crystallography</td>
<td>2,3</td>
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D. Specific Resources for selection of material:

- Wiley
- Elsevier
- Springer