### Program Level Mission

The primary mission is to provide trainees with:
1. A better understanding of the mechanisms of action of drugs and toxicants,
2. The ability to identify and design safer and more efficacious compounds,
3. The ability to understand genetic and environmental determinants of individual responsiveness to chemicals,
4. The ability to develop new tools and methods for future research,
5. The ability to improve drug therapy.

### Program Title: Pharmacology and Toxicology

#### Educational Outcomes/Objectives

1. Students will obtain a solid foundation in the Basic Biomedical Sciences core curriculum and electives as well as in research techniques.
   - Qualifying Exam Written
   - 1a. 90 percent of students will receive a rating of Entirely Satisfactory/Satisfactory on first attempt (Evaluation of Qualifying Exam Written Rubric).

2. Students will contribute to the body of knowledge in Pharmacology and Toxicology by advancing to Ph.D. candidacy no later than the beginning of Term III.
   - Written Proposal
   - 2. 90 percent of written proposals will receive a rating of Good/Good to Average on first attempt (Eval of Proposal Review Assessment Rubric).

3. Students will demonstrate independent research performance.
   - Research
   - 3. 90 percent of students will receive a rating of Satisfactory /Very Satisfactory at the end of each term (Evaluation of Ongoing Research Rubric).

#### Means of Program Assessment and Criteria for Success

1. Students will obtain a solid foundation in the Basic Biomedical Sciences core curriculum and electives as well as in research techniques.
   - Qualifying Exam Written
   - 1a. 90.7 percent of students met the standard.

2. Students will contribute to the body of knowledge in Pharmacology and Toxicology by advancing to Ph.D. candidacy no later than the beginning of Term III.
   - Written Proposal
   - 2. 6.8 percent met standard and 88.4 percent were rewrites.

3. Students will demonstrate independent research performance.
   - Research
   - 3. 80 percent of students met standard.

#### Use of Results and Actions

1a. Overall criteria met - Faculty noted Breadth of Knowledge and Ability to Respond to Critiques fell below standard. Added additional sessions.

1b. No action needed. No students received an unsatisfactory rating.

2. Learning outcome revised to reflect more common norm 80 percent will have proposal approved after one rewrite.

3. Faculty have added one additional weekly review sessions with students they are mentoring.
**University of Texas Medical Branch**

**School/Department:** Graduate School of Biomedical Sciences

**Program Title:** Pharmacology and Toxicology

Complete the first three columns in Summer of 2008. Complete the Last two columns in Spring 2009.

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<th>Program Level Mission</th>
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<td>Graduates will become teachers and or researchers in academic institutions, industry, biotechnology, or government.</td>
<td>4. Prepare, submit, and defend a research dissertation and/or publication in a peer review by the end of years 4-5.</td>
<td>Dissertation Written 4a. 90 percent of students will receive a rating of Excellent/Good (Written Dissertation Rubric).</td>
<td>Dissertation 4. 5 of 5 students successfully completed their written and oral Dissertation requirements.</td>
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<td>Oral Defense 4b. 90 percent of students will receive a rating of Excellent/Good (Dissertation Defense Oral Rubric).</td>
<td>Employment 5. Results of a phone survey - 100 percent of graduates were working in related fields.</td>
<td>Employment 5. No action needed. Continue to monitor.</td>
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<td>Employment 5. 90 percent of students have job offers upon graduation (Graduate Survey).</td>
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5. Graduates become employed in related fields.

4. Prepare, submit, and defend a research dissertation and/or publication in a peer review by the end of years 4-5.

4. 90 percent of students will receive a rating of Excellent/Good (Written Dissertation Rubric).

4. 5 of 5 students successfully completed their written and oral Dissertation requirements.

4. No action needed. Continue to monitor.

5. Results of a phone survey - 100 percent of graduates were working in related fields.

5. No action needed. Continue to monitor.