### Clinical and Translational Investigation Program

#### Data collection mechanism, by learning goal and source:

<table>
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<tr>
<th>Learning goal:</th>
<th>Source:</th>
<th>Course Directors</th>
<th>Program Advisors &amp; Mentoring Team</th>
<th>Program Advisors</th>
<th>Masters Examining Committee, including Thesis Chair</th>
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</table>
| 1. Proficient in current practical and theoretical aspects of the field | | • Written exams  
• Course assignments  
• Manuscript preparation  
• Grant proposal writing | • Conducting research project  
• Scientific conference presentation  
• Dissertation writing  
• Manuscript preparation  
• Grant proposal writing  
• Bi-annual progress reports | • Research in Progress Presentation  
• Dissertation writing  
• Manuscript preparation  
• Grant proposal writing  
• Bi-annual progress reports | • Dissertation writing  
• Thesis defense |
| 2. Adept at reading primary literature in a critical manner | | • Foundations of Clinical Research course  
• Foundations of Epidemiology course  
• Clinical Trials Design & Analysis course  
• Written exams  
• Course assignments | • Conducting research project  
• Scientific conference presentation  
• Dissertation writing  
• Manuscript preparation  
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• Bi-annual progress reports | • Research in Progress Presentation  
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• Thesis defense |
| 3. Design a well-designed research study in human or animal models | | • Prepare an application to an IRB/IACUC  
• Clinical Trials Design & Analysis course  
• Data Management in Clinical Research course  
• Elective courses: Qualitative Research Methods, Survey Research & Questionnaire Design  
• Written exams  
• Course assignments  
• Manuscript preparation  
• Grant proposal writing | • Prepare an application to an IRB/IACUC  
• Conducting research project  
• Scientific conference presentation  
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• Bi-annual progress reports | • Dissertation writing  
• Thesis defense |
| 4. Able to apply cultural and population diversity in clinical research design | | • Clinical Trials Design & Analysis course  
• Foundations of Epidemiology course  
• Elective course: Multicultural approaches to community health & disease prevention | • Conducting research project  
• Scientific conference presentation  
• Dissertation writing  
• Manuscript preparation  
• Grant proposal writing  
• Bi-annual progress reports | • Research in Progress Presentation  
• Presentation at scientific conferences  
• Presentation at Annual Translational Science Conference  
• Grant proposal writing | • Dissertation writing  
• Thesis defense |
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<th>5. Able to conduct original and significant research</th>
<th>Foundations of Clinical Research course</th>
<th>Conducting research project</th>
<th>Research in Progress Presentation</th>
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<td></td>
<td>Clinical Trials Design &amp; Analysis course</td>
<td>Scientific conference presentation</td>
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<td>6. Able to build a multidisciplinary team that matches the objectives of the research problem</td>
<td>Elective courses: Science of Team Science, Building High-Performing Teams</td>
<td>Conducting research project</td>
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<td>7. Proficient in presenting scientific data in a public forum, orally and in writing</td>
<td>Research Grant Writing I course</td>
<td>Scientific conference presentation</td>
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<td>8. Aware of issues and best practices in the responsible conduct of research</td>
<td>Tri-Institutional Responsible Conduct of Research course</td>
<td>Conducting research project</td>
<td>Research in Progress Presentation</td>
<td>Dissertation writing</td>
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<td>Ethical, Social, Legal Issues in Responsible Conduct of Research course</td>
<td>Scientific conference presentation</td>
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| 9. Experience in writing and reviewing grant proposals | Research Grant Writing I & II courses  
Optional skills acquisitions workshops: Planning & Writing Successful Grant Proposals; Planning and Writing Successful K Awards; Planning & Writing Competitive Renewal Grants  
Course assignments | Conducting research project  
Scientific conference presentation  
Grant proposal writing  
Bi-annual progress reports | Grant proposal writing  
Bi-annual progress reports |