TABLE OF CONTENTS

List of Exhibits

About the Authors	X
Acknowledgments	xii
1. A Guide for Scholarly Inquiry Into Teaching	^
What Is Happening in My Classroom?	
Teaching: A Scholarly Journey	
A Model for Your Classroom Inquiry	
Inquiry Step 1: Reflecting on Course Background, History, and Development	
Inquiry Step 2: Identifying an Issue to Investigate	
Inquiry Step 3: Defining an Inquiry Hypothesis	
Inquiry Step 4: Developing an Investigative Plan	
Inquiry Step 5: Relating Your Inquiry to What Has Been Done Before	
Inquiry Step 6: Seeking Institutional Approval and Student Consent	
Inquiry Step 7: Teaching the Course	
Inquiry Step 8: Interpreting and Evaluating Your Findings	
Inquiry Step 9: Reflecting on the Inquiry Process	
Checklist for Assessing Classroom Inquiry	
What's Next	
2. The Basic Structure of Classroom Inquiry	31
Inquiry Question: What is the change to student learning that results from replacing two in-class projects with out-of-class exercises in which students collect images that demonstrate fundamental course concepts?	
3. Incorporating Additional Forms of Data Collection	14
Inquiry Question: How do classroom methods and practices develop student skills for thinking critically and independently?	

vii

191

Bibliography

Index

4. Using Classroom Inquiry to Answer Multiple Questions	59
Inquiry Question: How does using different assessment strategies improve students' learning?	
5. Overcoming Challenges With Data Collection Inquiry Question: Does having students complete a weekly essay homework assignment improve their ability to explain and discuss mathematical concepts?	78 \$
6. Linking Classroom Inquiry With Disciplinary Research Inquiry Question: Does increased use of supplementary materials related to race lead to an increase in racial tolerance among students?	93 ited
7. Obtaining Useful Inquiry Results, but More Data is Needed Inquiry Question: Is there an ideal size and team member composition that will enhance student success on a service-learning project?	107 on
8. Using Classroom Inquiry to Evaluate New Assessment Measures <i>Inquiry Question:</i> What is the effect of having students grade each other's essay examinations in a survey course?	122
9. Classroom Inquiry for Measuring Feedback on Student Learning and Aptitudes Inquiry Question: What is the effect of web-based assessment practices on students' performance and attitudes?	138
10. Classroom Inquiry and Scholarly Teaching Inquiry Question: Are visual methods of brainstorming more effective than verbal methods?	156
11. Beginning Your Scholarly Journey Lessons Concerning Classroom Inquiry Practical Advice for Conducting Your Inquiry From Scholarly Teaching to the Scholarship of Teaching and Lear Models for Disseminating Your Inquiry Work Resources for Learning More	174
An Invitation to Set Out on Your Scholarly Journey	
D'II'	189