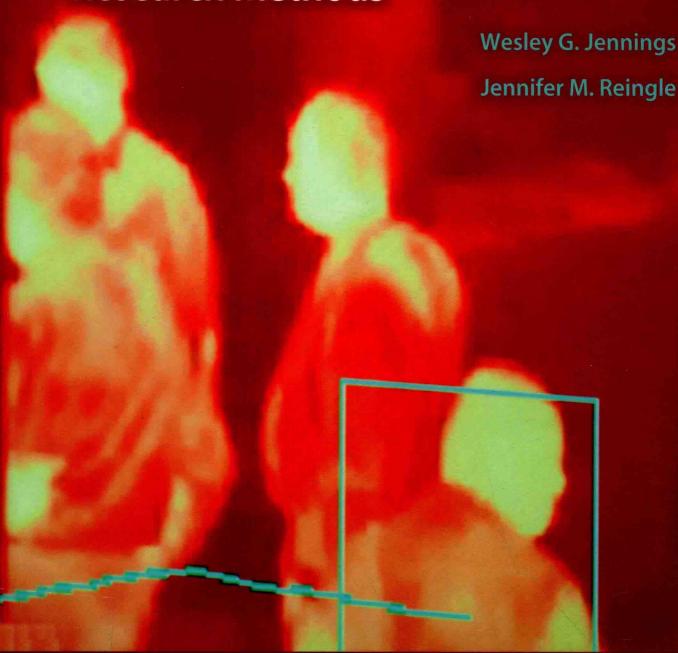
ASPEN COLLEGE SERIES

Criminological and Criminal Justice Research Methods

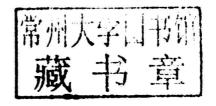




CRIMINOLOGICAL AND CRIMINAL JUSTICE RESEARCH METHODS

WESLEY G. JENNINGS *University of South Florida*

JENNIFER M. REINGLE University of Texas School of Public Health





Copyright © 2014 CCH Incorporated.

Published by Wolters Kluwer Law & Business in New York.

Wolters Kluwer Law & Business serves customers worldwide with CCH, Aspen Publishers, and Kluwer Law International products. (www.wolterskluwerlb.com)

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or utilized by any information storage or retrieval system, without written permission from the publisher. For information about permissions or to request permissions online, visit us at www.wolterskluwerlb.com, or a written request may be faxed to our permissions department at 212-771-0803.

To contact Customer Service, e-mail customer.service@wolterskluwer.com, call 1-800-234-1660, fax 1-800-901-9075, or mail correspondence to:

Wolters Kluwer Law & Business Attn: Order Department PO Box 990 Frederick, MD 21705

Printed in the United States of America.

1234567890

ISBN 978-1-4548-3306-2

Library of Congress Cataloging-in-Publication Data

Jennings, Wesley G., author.

Criminological and criminal justice research methods / Wesley G. Jennings and Jennifer M. Reingle.

pages cm

Includes bibliographical references and index.

ISBN 978-1-4548-3306-2—ISBN 1-4548-3306-8 1. Criminal justice, Administration of—United States. 2. Criminology—United States. 3. Criminology—Research—Methodology. I. Reingle, Jennifer M., author. II. Title.

KF9223.J46 2014 364.072—dc23

2013044466



CRIMINOLOGICAL AND CRIMINAL JUSTICE RESEARCH METHODS

Editorial Advisors

Carol A. Archbold North Dakota State University

George E. Higgins University of Louisville

Evan Mandery John Jay College of Criminal Justice

G. Larry Mays New Mexico State University

Holly Ventura Miller University of Texas, San Antonio

About Wolters Kluwer Law & Business

Wolters Kluwer Law & Business is a leading global provider of intelligent information and digital solutions for legal and business professionals in key specialty areas, and respected educational resources for professors and law students. Wolters Kluwer Law & Business connects legal and business professionals as well as those in the education market with timely, specialized authoritative content and information-enabled solutions to support success through productivity, accuracy and mobility.

Serving customers worldwide, Wolters Kluwer Law & Business products include those under the Aspen Publishers, CCH, Kluwer Law International, Loislaw, ftwilliam.com and MediRegs family of products.

CCH products have been a trusted resource since 1913, and are highly regarded resources for legal, securities, antitrust and trade regulation, government contracting, banking, pension, payroll, employment and labor, and healthcare reimbursement and compliance professionals.

Aspen Publishers products provide essential information to attorneys, business professionals and law students. Written by preeminent authorities, the product line offers analytical and practical information in a range of specialty practice areas from securities law and intellectual property to mergers and acquisitions and pension/benefits. Aspen's trusted legal education resources provide professors and students with high-quality, up-to-date and effective resources for successful instruction and study in all areas of the law.

Kluwer Law International products provide the global business community with reliable international legal information in English. Legal practitioners, corporate counsel and business executives around the world rely on Kluwer Law journals, looseleafs, books, and electronic products for comprehensive information in many areas of international legal practice.

Loislaw is a comprehensive online legal research product providing legal content to law firm practitioners of various specializations. Loislaw provides attorneys with the ability to quickly and efficiently find the necessary legal information they need, when and where they need it, by facilitating access to primary law as well as state-specific law, records, forms and treatises.

ftwilliam.com offers employee benefits professionals the highest quality plan documents (retirement, welfare and non-qualified) and government forms (5500/PBGC, 1099 and IRS) software at highly competitive prices.

MediRegs products provide integrated health care compliance content and software solutions for professionals in healthcare, higher education and life sciences, including professionals in accounting, law and consulting.

Wolters Kluwer Law & Business, a division of Wolters Kluwer, is headquartered in New York. Wolters Kluwer is a market-leading global information services company focused on professionals.

PREFACE

We are well aware that the research methods course is usually not eagerly anticipated by the majority of students who are often required to take it as part of their criminology or criminal justice studies. Most students in these programs enroll in the course to prepare for work as police officers, parole officers, or perhaps, after law school, defense or prosecuting attorneys. Such students may see research methods as unnecessary and irrelevant to their future careers. This book was created largely in response to this misperception and to demonstrate that the study of research methods in criminology and criminal justice can be interesting, relevant, and at times even humorous. But although the text is directed toward criminology and criminal justice undergraduates with no particular interest in research methods and no plans to attend graduate school, it also offers additional, more challenging material that may be integrated at the instructor's discretion for use in advanced undergraduate or even graduate-level research methods classes.

This book stands out among the many research methods texts available because it focuses on delivering the essential core materials with a vivid and consistent sense of their practical, real-world application to issues and situations central to practice in criminology and criminal justice. The text offers methods and formats with direct application to situations and issues students will encounter in the field, and it illustrates these using scenarios based on actual conditions and events. This approach not only facilitates student learning and understanding of the research methods studied, but it also helps students envision the utility of the methods and thus, we hope, motivates them to read, retain, and even enjoy the material.

As authors who are both heavily involved in theoretical, methodological, empirical, and practical evaluations and applications of criminology and criminal justice research methods, we bring a range of relevant, current experience to the content, organization, and writing of this text. We were able to identify outmoded, inessential methods that are no longer standard practice or that are impractical or irrelevant in the field. We also place a heavy emphasis on research methods that are in very frequent use among researchers in criminology and criminal justice—such as survey data and secondary analysis—and that produce results widely disseminated among and considered by police, prison, and criminal justice officials and policy makers.

This text includes both classical criminology and criminal justice research methods in continuing use and cutting-edge approaches that are quickly proving their usefulness in the field. Both are presented clearly and directly, so undergraduate students can easily absorb and build on their understanding of the content as they explore increasingly complex material and learn to put it to practical use. Stand-alone chapters are devoted to such essential topics as ethics, measurement, survey research, secondary data analysis, and sampling. Emerging approaches, such as case-control and longitudinal designs and experiments in criminology and criminal justice settings, are covered as well. Because most criminology and criminal justice agencies have an in-house or contracted analyst, we specifically focus on research design, rather than the nuts and bolts of coding and analysis. This places the emphasis on students' likely future needs as consumers rather than producers of research.

In response to the predilections of a new generation of college students, this text employs innovative pedagogical techniques designed to engage as they instruct. To this end, the textbook approaches its topics like a series of short stories. Each chapter employs its own scenario, based on one or more real-world situations, showing how criminology and criminal justice research methods, terminology, and techniques work in the field to help practitioners analyze developments and resolve problems. By engaging the reader in these stories, the text helps students absorb and retain more of the material in ways that mirror how it is actually put into action.

Our goal was to develop a criminology and criminal justice research methods textbook that used new approaches while remaining true to the important and relevant core material, that did not resort to jargon or overly abstract concepts, and that both undergraduate and graduate students would find accessible and informative. We wanted to attract and keep the attention of the next generation of criminology and criminal justice practitioners so that they are prepared and eager to implement in their agencies evidence-based policies based on sound, up-to-date criminology and criminal justice research methods. We feel that we have succeeded in meeting these goals. We sincerely hope that both instructors and students will agree and will find this text refreshing to use and to be an effective guide to proficiency in criminology and criminal justice research methods.

ACKNOWLEDGMENTS

We would like to thank our families and dear friends for their love, patience, and support during the development of this textbook. We also would like to thank David Herzig, our associate publisher, for providing us the opportunity to write this textbook, and Susan Boulanger, our developmental specialist, for her detailed edits, comments, and assistance in moving this textbook into production. Finally, we wish to thank the reviewers of the initial book proposal and the reviewers of the original (and revised) draft of our textbook as their helpful advice and comments undoubtedly improved the overall quality of this publication.

-Wesley G. Jennings, Ph.D., and Jennifer Reingle, Ph.D.

CRIMINOLOGICAL AND CRIMINAL JUSTICE RESEARCH METHODS

BRIEF CONTENTS

Contents Preface	ix xv
Chapter 1	-
INTRODUCTION TO RESEARCH DESIGN IN CRIMINAL JUSTICE	1
Chapter 2 ETHICS IN SCIENTIFIC RESEARCH	13
Chapter 3 MEASUREMENT AND INSTRUMENTATION	27
Chapter 4	
CRIME MEASUREMENT	43
Chapter 5 SURVEY RESEARCH AND QUESTIONNAIRE DEVELOPMENT	59
Chapter 6	
SECONDARY DATA ANALYSIS	75
Chapter 7	
SAMPLING	89
Chapter 8 EXPERIMENTAL AND QUASI-EXPERIMENTAL DESIGNS	103
Chapter 9	
LONGITUDINAL DESIGNS	119
Chapter 10	
CASE-CONTROL DESIGNS	129
Chapter 11	
QUALITATIVE DESIGNS	139
Chapter 12	
THE INTERSECTION OF CRIMINOLOGICAL THEORY AND RESEARCH METHODS	147
Glossary Index	163 173

CONTENTS

Preface	xv
Chapter 1	
INTRODUCTION TO RESEARCH DESIGN IN CRIMINAL JUSTICE	1
Identifying a Problem	2
Hypothesis Development and Testing	3
Scientific Language	4
Variables	5
Operationalization	5
Aggregation	5
Qualitative and Quantitative Research	6
Participatory Research	6
Induction/Deduction	7
Summary	8
Key Terms	8
Review Questions	9
Useful Websites	10
References	10
Chapter 2	
ETHICS IN SCIENTIFIC RESEARCH	13
The History of Concern over the Ethical Treatment of Prisoners	13
The Stanford Prison Experiment	14
The Belmont Report	15
Codes of Professional Ethics	16
The Institutional Review Board	18
Responsibilities of the IRB	18
Anonymity and Confidentiality	19
Deceiving Participants	19
Voluntary Participation	19
Vulnerable Populations	20
Incentives	20

Additional Concerns Regarding IRBs	21
Applications: Ethical Examples and What Went Wrong	21
Josef Mengele	21
Tuskegee Syphilis Study	22
University of California Schizophrenia Study	22
Summary	22
Key Terms	22
Review Questions	23
Useful Websites	24
References	24
Chapter 3	
MEASUREMENT AND INSTRUMENTATION	27
Conceptualization and Operationalization	27
Types of Variables	28
Levels of Measurement	29
Scaling Procedures	30
Validity and Reliability	33
Validity	33
Reliability	35
Comparing Validity and Reliability	36
Summary	37
Key Terms	38
Review Questions	40
Useful Websites	40
References	40
Chapter 4	
CRIME MEASUREMENT	43
Official Statistics	43
Uniform Crime Reports	43
Limitations of the UCR	45
National Incident-Based Reporting System	47
NIBRS vs. UCR	47
Victim Surveys	50
National Crime Victimization Survey	50
NCVS vs. UCR	52
Self-Report Offender Surveys	53
Summary	53
Key Terms	54

Review Questions	55
Useful Websites	56
References	56
Chapter 5	
SURVEY RESEARCH AND QUESTIONNAIRE DEVELOPMENT	59
Is a Survey Appropriate?	59
Modes of Survey Administration	60
Web or E-Mail Surveys	60
Mail- or Paper-Based Surveys	61
Prenotifications and Boosters	61
Phone Surveys	62
Face-to-Face Interviewing	63
Factors Influencing Response Rates	66
Developing the Survey	67
Designing the Questionnaire	68
Summary	70
Key Terms	71
Review Questions	72
Useful Websites	73
References	73
Chapter 6	
SECONDARY DATA ANALYSIS	75
Secondary Data	75
Official Data versus Self-Report Data	76
Major Secondary Sources for Criminological Research	77
Uniform Crime Reports	77
National Crime Victimization Survey	78
National Survey on Drug Use and Health	79
Monitoring the Future	80
General Social Survey	81
National Longitudinal Survey of Youth	81
U.S. Census Bureau	82
Methods of Devising Secondary Data Analysis Resources	
for Criminological Research	82
Content Analysis	82
Meta-Analysis	83
Summary	84
Key Terms	85
Review Onestions	86

Useful Websites	86
References	86
Chapter 7	
SAMPLING	89
Sampling in General	89
Probability Sampling	90
Simple Random Sampling	91
Systematic Random Sampling	91
Stratified Random Sampling	92
Cluster Sampling	93
Alternative Methods: Nonprobability Sampling	94
Convenience/Available Subjects Sampling	94
Quota Sampling	95
Purposive Sampling	95
Snowball Samples	95
Sampling Bias	96
Sampling Distribution and Errors	96
Confidence Intervals	97
Confidence Levels	98
Power Calculation	98
Summary	98
Key Terms	99
Review Questions	101
Useful Websites	101
References	102
Chapter 8	
EXPERIMENTAL AND QUASI-EXPERIMENTAL DESIGNS	
•	103
An Introduction to the Experimental Design	103
Steps to Conducting an Experiment	104
The Experimental Intervention	106
Experiments and Causal Inference	107
History Maturation	107
	107
Test Instrumentation	107
	108
Statistical Regression to the Mean Selection Bias	108
Attrition	109
Temporal Ordering	109
Temporal Oruering	109

Other Factors Affecting Experimental Results	110
Criteria for Evaluating Causation	110
Multilevel Randomization	111
Quasi-Experimental Designs	112
Nonequivalent Groups Designs	112
Time-Series Designs	113
Summary	114
Key Terms	115
Review Questions	116
Useful Websites	116
References	117
Chapter 9	
LONGITUDINAL DESIGNS	119
Why Use a Longitudinal Design?	119
Instrumentation	120
Retaining Your Sample Over Time	121
Types of Longitudinal Designs	121
Repeated Cross-Sectional versus Longitudinal Designs	122
Intensive Longitudinal Designs	122
Retrospective Longitudinal Design	123
When Are Longitudinal Designs Appropriate?	124
Summary	125
Key Terms	125
Review Questions	126
Useful Websites	126
References	126
Chapter 10	
CASE-CONTROL DESIGNS	129
Case-Control Design	129
Subject Selection	130
Matching Cases and Controls	132
Methods of Analysis and Interpretation	133
Strengths and Weaknesses of the Case-Control Method	134
Summary	135
Key Terms	135
Review Questions	136
Useful Websites	137
References	137
	_0,

xiv CONTENTS

Chapter 11	
QUALITATIVE DESIGNS	139
Qualitative Research in Criminology and Criminal Justice	139
Role of the Observer	141
Validity and Reliability Issues	142
Summary	144
Key Terms	144
Review Questions	145
Useful Websites	146
References	146
Chapter 12	
THE INTERSECTION OF CRIMINOLOGICAL THEORY AND	
RESEARCH METHODS	147
Deterrence Theory	147
Labeling Theory	148
Self-Control Theory	150
Social Learning Theory	152
General Strain Theory	154
Developmental Life-Course Theories	157
Summary	158
Key Terms	158
Review Questions	159
Useful Websites	159
References	159
Glossary	163
Index	173