Chapter 1 Defining Interdisciplinary Studies Sage Publications
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In Search of an Integrative Vision for Technology
The Integration of the Humanities and Arts with Sciences, Engineering, and Medicine in Higher Education
The Routledge Handbook of Urban Ecology
The Routledge Companion to Interdisciplinary Studies in Singing, Volume II: Education
An Introduction to Interdisciplinary Research
Course Strategies for Interdisciplinary Research Facilitating Interdisciplinary Research Interdisciplinary Research Journeys

The Rite of Urban Passage
Beyond Music—Interdisciplinary communication and collaboration written by leading figures and promising junior scholars in the world of interdisciplinary research, education, and administration. Designed to inform both teaching and research, this innovative book covers the spectrum of interdisciplinary activity, offering a timely emphasis on collaborative interdisciplinary work.

The book's four main focus parts on theoretical perspectives, case studies, communication tools, and institutional perspectives, while a final chapter ties together the various strands that emerge in the book and defines trend-lines and future research questions for those conducting work on interdisciplinary communication.

The Integration of the Humanities and Arts with Sciences, Engineering, and Medicine in Higher Education

Written for the forensic science student and professional practitioner, The Scientific Method in Forensic Science provides an experience-based learning opportunity for understanding the scientific method and evidence-based analysis as they relate to forensic science in a Canadian context. Underlining the importance of these concepts, this handbook features real-world case and court examples that depict how scientific rigor has been incorporated into practice and the consequences when it has not. The authors explore the paradigm shift in the discipline, examining important events and reports like the Kaufman Commission and the Goudge Report; text the scientific concepts and reasoning; and outline step to critically review a journal article and conduct a literature review. They also highlight the importance of critical thinking, ethics and impartiality, the role of statistics in casework, and effective communication. Blending theory with experience-based examples and featuring thought-provoking questions, exercises, and suggestions for further reading, The Scientific Method in Forensic Science is an essential resource for students in forensic science, criminology, police studies, and anthropology.

The Routledge Handbook of Urban Ecology

This book offers a fascinating reading experience for anyone interested in an inquiring relationship between the social and the natural sciences. It offers a keen awareness of the need to make interdisciplinary research a core part of the research agenda and the importance of critical thinking, ethics and impartiality, the role of statistics in casework, and effective communication. Blending theory with experience-based examples and featuring thought-provoking questions, exercises, and suggestions for further reading, The Scientific Method in Forensic Science is an essential resource for students in forensic science, criminology, police studies, and anthropology.

Interdisciplinary Research Journeys

Interdisciplinary research is a method that has become efficient in accelerating scientific discovery. The integration of such processes in problem solving and knowledge generation is a vital part of learning and instruction. Promoting Interdisciplinarity in Knowledge Generation and Problem Solving is a pivotal reference source for the latest scholarly research on interdisciplinary projects from around the world, highlighting the broad range of circumstances in which this approach can be effectively used to solve problems and generate new knowledge. Covering a range of topics and perspectives such as industrial design, ethnographic methods, and methodological pluralism, this publication is ideal for those seeking to develop knowledge in the field of interdisciplinarity for knowledge production.

Interdisciplinary Research Journeys

Interdisciplinary research has become a rallying cry among funders and leaders of research. Yet, while the potential of interdisciplinary research is great, it poses many challenges. If you don't have disciplinary boundaries, how do you decide what to include or leave out? And what are the parameters for evaluating the research? This book provides a practical guide for researchers and research managers who are seeking to develop interdisciplinary research strategies at a personal, institutional and multi-institutional level. The book draws on examples from across the social and natural sciences but also offers valuable lessons for other combinations of more proximate disciplines. At a time when interdisciplinary research is increasingly central to the research agenda, this book offers a crucial practical guide for researchers, research funders and managers from all backgrounds and contexts.

The Rite of Urban Passage

Interdisciplinary Research Discourse

The Routledge Companion to Interdisciplinary Studies in Singing, Volume II: Education examines the many methods and motivations for vocal pedagogy, promoting singing not just as an art form arising from the musical instrument found within every individual but also as a means of communication with social, psychological, and didactic functions. Preventing research from losing its interdisciplinarity, the book includes contributions from experts in the field, such as former students and colleagues of the late Richard Kaufman, who established the International Society for Composers and Conductors.

Interdisciplinary Courses and Team Teaching

The Routledge Companion to Interdisciplinary Studies in Singing consolidates the findings of each of these three questions, defining the current state of theory and research in the field. Volume II: Education focuses on the second question and offers an invaluable resource for anyone who identifies as a singer, wishes to become a singer, works with singers, or is interested in the application of singing for the purposes of education.

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One of the major challenges in emphasizing the academic aspect in early 2000s has been interdisciplinary research, a trend that promises new insights and innovations rooted in cross-disciplinary collaboration. This book is designed to help students understand the tools required for stepping beyond traditional disciplinary boundaries and applying knowledge and insights from multiple fields. Relentlessly focused on practical applications, the book will enable students to plan and execute their own interdisciplinary research projects.

Enhancing Communication & Collaboration in Interdisciplinary Research

In this important new text, Holland seeks to explain, by means of social scientific and philosophical inquiry, the difficulties that researchers often experience when attempting to integrate knowledge from different academic disciplines, either individually or as part of a team of subject specialists. It is argued that the difficulty of integrating knowledge from different academic disciplines is the result of, firstly, an inadequate justification of the nature of scientific integration and differentiation and, secondly, the dominance of disciplinary specialization in scientific inquiry. By focusing on both the theoretical justification for, and the practical feasibility of, integrating knowledge through interdisciplinary research, this book asks what properties of reality make the integration of knowledge from different academic disciplines possible and to what extent is it feasible to integrate knowledge through interdisciplinary research within a traditional, disciplinary context. Accordingly the text is both philosophical and social scientific in context; philosophical in the sense that it presents a theory of causal determination, which will help researchers to understand how reality is both differentiated and interconnected; social scientific in the sense that it presents the results of three case studies of collaborative interdisciplinary research projects. The book is heavily informed by the philosophy of critical realism. The philosophical argument about the possibility of integration and specialization in science draws explicitly on some of the key concepts of critical realism – particularly those concerning the theory of 'integrative pluralism' – while critical realism assumptions underpin the social scientific argument about the causal influence of the social system of knowledge production. By exploring researchers' conceptions of knowledge and of reality on the one hand and their decisions about what sort of knowledge to produce on the other, Holland shows how the difficulty of scientific integration is both a problem of knowledge and a problem of knowledge production. This book is essential reading for students and academics interested in the emerging topic of knowledge integration and interdisciplinary.

Effectiveness of the Methods for Engineering Courses in a Large Non-homogeneous Class Setting

Themes play a central role in our everyday communication: we have to know what a text is about in order to understand it. Intended meaning cannot be understood without some knowledge of the underlying theme. This book helps to define the concept of 'themes' in texts and how they are structured in language use. Much of the literature on Thematics is scattered over different disciplines (literature, philosophy, psychology, linguistics, cognitive science), which this detailed collection pulls together in one coherent overview. The result is a new landmark for the study and understanding of themes in their everyday manifestation.

Promoting Interdisciplinarity in Knowledge Generation and Problem Solving

Case Studies in Interdisciplinary Research successfully applies the model of the interdisciplinary research process outlined by author Allen F. Repko in Interdisciplinary Research, (SAGE ©2008) to a wide spectrum of challenging research questions. Self-contained case studies, written by leaders in interdisciplinary research, and utilizing best-practice techniques in conducting interdisciplinary research shows students how to apply the interdisciplinary research process to a variety of problems.

Introduction to Interdisciplinary Studies

Facilitating Interdisciplinary Research examines current interdisciplinary research efforts and recommends ways to stimulate and support such research. Advances in science and engineering increasingly require the collaboration of scholars from various fields. This shift is driven by the need to address complex problems that cut across traditional disciplines, and the capacity of new technologies to both transform and generate new ones. The book argues that policies can be imputed by policies on hiring, promotion, tenure, proposal review, and resource allocation that favor traditional disciplines. This report identifies steps that researchers, teachers, students, institutions, funding organizations, and disciplinary societies can take to more effectively conduct, facilitate, and evaluate interdisciplinary research programs and projects. Throughout the report key concepts are illustrated with case studies and results of the committee's surveys of individual researchers and university provosts.

Reading the Legal Case

In Interdisciplinary Courses and Team Teaching: New Arrangements for Learning, James R. Davis explains the benefits and pitfalls of interdisciplinary, team-taught courses and provides current, practical information on how to design and conduct them. Using examples from existing courses, he presents a convincing argument that team-taught, interdisciplinary classes are an improvement over the traditional, discipline-oriented structures. Dr. Davis uses these examples to construct an "ideal" template for college teachers and administrators interested in implementing this innovative teaching method. Dr. Davis includes a listing of nearly 100 interdisciplinary, team-taught courses currently being offered at colleges and universities in North America. The course entries are arranged by general categories, such as general education, women's and gender studies, professional and technical programs, and electives. Each entry includes course title, offering institution, intended audience, discipline, personnel, a general description, distinctive features, and a contact person with address and phone/fax numbers.

Interdisciplinary Knowledge Organization

The Second Edition provides a comprehensive introduction to interdisciplinary studies with an approach that is succinct, conceptual, and practical. Completely updated to reflect advances in the literature on research, learning, and assessment, the book describes the role of both disciplines and interdisciplinary within the academic, and how these have evolved. Authors Allen F. Repko, Rick Sytsma, and Michelle Philipp Buchberger effectively show students how to think like interdisciplinarians in order to facilitate their working with topics, complex problems, or themes that span multiple disciplines.

Health Communication in the New Media Landscape

The Legal Case: Cross-Currents in Law and the Humanities examines the seemingly familiar notion of a 'legal case' by exploring the histories, practices, conventions and rhetoric of 'case law'. The history of law devicics, whereby courts are bound by precedent cases, underpins legal reasoning in the common law world. At the same time, the legal case is itself a product of institutional and linguistic practices, and raises broader questions about the foundations and boundaries of law. The idea of the 'case' as an ordered, closed narrative with a determinate outcome is, for example, integral to medical, psychoanalytic, and legal discourses; whilst the notion of the 'strange case' is a popular one in the English fiction of the late nineteenth century. What is at stake in the attempt to categorize or define a situation as a legal case? Is the notion of 'binding precedent' in 'case law' really distinctive to the common law? And if so, why? What can the concept of a 'case' in other disciplines and discourses tell us about how it operates in law? With contributions from legal philosophers, legal historians, literary critics, and linguists, this book moves beyond the jurisprudential discussion of the nature and authority of the legal case, as it draws on insights from philosophy, in linguistics, narratology, drama, and film.

International Comparative Research

For generations, the map has been central to how societies function all over the world. Cybertography is a new paradigm for maps and mapping in the information era. Defined as “the organization, presentation, analysis and communication of spatially referenced information on a wide variety of topics of interest to society, cybertography is presented in an interactive,(264,26) dynamic, multimedia format with the use of multimedia and multiformal interfaces. Cybertography: Theory and Practice examines the major elements of cybertography and emphasizes the importance of interaction between theory and practice in developing a paradigm which moves beyond the concept of Geographic Information Systems and Geographical Information Science. It argues for the centrality of the map as part of an integrated information, communication, and analytical package. This volume is a result of a multidisciplinary team effort and has benefited from the input of partners from government, industry and other organizations. The international team reports on major original cybertographic research and practice from a variety of disciplinary perspectives, including the humanities, social sciences, including cultural anthropology, cybernetics, cybernetics, English literature, cultural studies, and geography. This new book has intrinsic value for industries, the general public, and the relationships between mapping and the development of user-centered multimedia interfaces. * Discusses the centrality of the map and its importance in the information era * Provides an interdisciplinary approach with contributions from psychology, music, development and language and literature * Describes qualitative and quantitative aspects of cybertography and the importance of societal context in the interaction between theory and practice * Contains an interactive CD-Rom containing color images, links to websites, plus other important information to capture the dynamic and interactive elements of cybertography

Foundations of Educational Technology

This book offers a comprehensive overview of the history and theory of educational technology and the many ways in which it has been applied to teaching and learning. The first section, Development, Set and Setting, discusses a new basis for the understanding of deviant pathways. The second section, Youth, Drug and Delinquency Pathways, presents empirical studies which help to understand the drug-crime relationship. The third section discusses Adults, Drug and Crime Pathways adopted by drug users, dealers, and traffickers. Finally, the fourth section, Ways Out of deviant pathways, explores approaches for controlling drug use and criminality socially or individually, or without legal intervention or formal help. In short, this book presents an invaluable overview of the most advanced research in the field of deviant drug-and crime-related pathways.

Drugs and Crime Deviant Pathways

The Iranian context experienced a major transformation when the Pahlavi Dynasty initiated a project of modernization in the 1920s. The Rite of Urban Passage investigates this process by focusing on the spatial dynamics of Muharram processions, a ritual that commemorates the tragic massacre of Hussein and his companions in 680 CE. In doing so, this volume offers not only an alternative approach to understanding the process of urban transformation, but also a spatial genealogy of Muharram rituals that provides a platform for developing a fresh spatial approach to ritual studies.

Interdisciplinary Research

An engaging book for professional educators and an ideal textbook for certificate, master's, and doctoral programs in educational technology, instructional systems and learning design, Foundations of
Interdisciplinary Higher Education

Appendices include: Glossary, Important environmental activities, Criminal sanctions outlined in federal environmental legislation, environmental legal cases, environmental crimes investigations for law enforcement officers.

Becoming Interdisciplinary

Global Studies Research

“...This is a timely discussion of using new information technologies and media for communicating diverse health information to diverse audiences. This book is useful, readable, current, well organized, and seems to be a unique contribution.”—Dooey’s “In this volume there are examples of how advances in technology not only empower individuals in their interactions with a health system but also enable health professionals to better tailor their work and time for the benefit of patients and clients.”—Paul R. Gally, MB, CSB, PRPCF, FPPF, World Health Organization, Geneva, Switzerland (From the Foreword) To date, little guidance exists for health care professionals who want and need new ways to communicate health information with each other, their patients, and the general public. To address this need, Health Communication in the New Media Landscape presents innovative, media-based methods of communication to graduate students, educators, health care professionals, public health officials, and communication experts. Health Communication in the New Media Landscape demonstrates the extent to which modern, digital technology can serve as the most practical and efficient form of distributing health-related information. The authors are confident that, if implemented wisely, technology can and will transform the face of health communication as we know it. This unique book addresses the following: The role technology can and will play in health communication How new media can be used to improve health literacy How patients can learn about health-related issues and health care New ways practitioners will be able to communicate with their patients How persons with chronic diseases learn about resources, support systems, and rehabilitation The impact of the new media landscape on health care providers, insurance companies, and health care policies.

Interdisciplinary Digital Humanities

This book proposes a novel approach to classification, discusses its myriad advantages, and outlines how such an approach to classification can best be pursued. It encourages a collaborative effort toward advance knowledge development, which is a classification. This book is motivated by the increased importance of interdisciplinary scholarship in the academy, and the widely perceived shortcomings of existing knowledge organization schemes in serving interdisciplinary scholarship. It is designed for scholars of classification research, knowledge organization, the digital environment, and interdisciplinarity itself. The approach recommended blends a general classification with domain-specific classification practices. The book reaches a set of very strong conclusions: Existing classification systems serve interdisciplinary research and teaching poorly; a novel approach to classification, grounded in the phenomena studied rather than disciplines, would serve interdisciplinary scholarship much better. It would also have advantages for disciplinary scholarship. The productivity of scholarship would thus be increased. This novel approach is entirely feasible. Various concerns that might be raised can each be addressed. The broad outlines of what a new classification would look like are developed. This new approach might serve as a complement to or a substitute for existing classification systems. Domain analysis can and should be used in the pursuit of a general classification. This will be particularly important with respect to interdisciplinary domains. Though the impetus for this novel approach comes from interdisciplinarity, it is also better suited to the needs of the Semantic Web, and a digital environment more generally. Though the primary focus of the book is on classification systems, most chapters also address how the analysis could be extended to thesauri and ontologies. The possibility of a universal thesaurus is explored. The classification proposal has many of the advantages sought in ontologies for the Semantic Web. The book is therefore of interest to scholars working in these areas as well.

Environmental Crime

Offers a contemporary understanding and practice of interdisciplinary higher education. This book considers a range of theoretical perspectives on interdisciplinarity: the nature of disciplines, complexity, leadership, group working, and academic development.

Integrating Knowledge Through Interdisciplinary Research

Introduction to Interdisciplinary Studies provides a comprehensive introduction to interdisciplinary studies with an approach that is conceptual and practical. Completely updated to reflect advances in the literature on research, learning, and assessment, the book describes the role of both disciplines and interdisciplinary scholarship within the academy, and how these have evolved. Authors Allen F. Repko, Rick Nystok, and Michelle Phillips Buchberger effectively show students how to think like interdisciplinarians in order to facilitate their working with topics, complex problems, or themes that span multiple disciplines. New to the Third Edition are guiding questions at the start of each chapter, a discussion of the public policy issue of “basic income” as an example at the end of each chapter, application of interdisciplinary techniques in daily life, enhanced discussion of ethical decision-making, and updated examples and references throughout. FREE SAGE edge online resources gives instructors and students the edge they need to succeed with an array of teaching and learning tools in one easy-to-navigate website. Learn more.

Scholarly Resources for Children and Childhood Studies

This authoritative book examines the what, why and how of international comparative research. It offers a comprehensive topic-based overview of the theory and practice of comparative research and addresses the complex, dynamic field of those both finding the research and seeking the findings. Drawing on illustrations from the extensive international literature as well as real-life comparative studies, the chapters guide readers through the many stages in the research process, from research design and data collection to the analysis and interpretation of findings. In a book that crosses national, societal, cultural and disciplinary boundaries, the author: • Pinpoints practical problems and directs readers to tried and tested solutions, including multiple method strategies. • Draws on examples of policy transfer to examine how comparative research can inform policy making • Provides guidance on the management of international research teams and projects. This resource is the ultimate reference tool for students, researchers and practitioners undertaking comparative research projects in international settings across the social sciences and humanities.

Interdisciplinarity

Case Studies in Interdisciplinary Research successfully applies the model of the interdisciplinary research process outlined by author Allen F. Repko in Interdisciplinary Research, (SAGE ©2008) to a wide spectrum of challenging research questions. Self-contained case studies, written by leaders in interdisciplinary research, and utilizing best-practice techniques in conducting interdisciplinary research shows students how to apply the interdisciplinary research process to a variety of problems.

Information and Referral Services

Global Studies Research is a research methods textbook designed for interdisciplinary International Studies majors and their faculty. The textbook introduces interdisciplinary research, provides basic building blocks of relevant disciplinary knowledge, explains a process for integrating knowledge from multiple disciplines, and models this interdisciplinary International Studies Research Process in its presentation of the case studies.

Cybercartography

Introduction to Interdisciplinary Research offers comprehensive treatment of the interdisciplinary research process commonly used by interdisciplinary researchers. The concise and guided resource on the most commonly accepted interdisciplinary studies principles as applied to the research process covers topics such as: deciding how to choose disciplines relevant to the problem or topic; dealing with disciplinary and ideological bias; making explicit the rationale for taking an interdisciplinary approach, and choosing research methods appropriate to the problem or topic.

Handbook of Decision Making

In the United States, broad study in an array of different disciplines led to a “culture” of scholarship that we now call “interdisciplinary.” As a result of this culture, many universities have established centers and institutes to promote interdisciplinary research. However, there is little evidence that these centers and institutes have been successful in achieving their goals. In this paper, we explore some of the challenges that interdisciplinary researchers face and suggest ways that universities can improve the effectiveness of their interdisciplinary efforts. We also discuss the importance of interdisciplinary research for addressing complex social issues such as global climate change and health policy. Finally, we recommend that universities adopt a more systematic approach to evaluating the success of their interdisciplinary programs.

Handbook of Decision Making provides a comprehensive introduction to decision making with an approach that is practical and relevant. Completely updated to reflect advances in the field, the book describes the role of both individual and group decision making within the academy, and how these have evolved. The authors: • Pinpoint practical problems and direct readers to tried and tested solutions, including multiple method strategies. • Draw on examples of policy transfer to examine how decision making can inform policy making • Provides guidance on the management of interdisciplinary research teams and projects. This resource is the ultimate reference tool for students, researchers and practitioners undertaking interdisciplinary research projects in international settings across the social sciences and humanities.
Information and Referral Centers

In this volume, Julie Klein provides the first comprehensive study of the modern concept of interdisciplinarity, supplementing her discussion with the most complete bibliography yet compiled on the subject. Spanning the social sciences, natural sciences, humanities, and professions, her study is a synthesis of existing scholarship on interdisciplinary research, education and health care. Klein argues that any interdisciplinary activity embodies a complex network of historical, social, psychological, political, economic, philosophical, and intellectual factors. Whether the context is a short-range, instrumentality or a long-range reconceptualization of the way we know and learn, the concept of interdisciplinarity is an important means of solving problems and answering questions that cannot be satisfactorily addressed using singular methods or approaches.

The Scientific Method in Forensic Science

Over time, thought processes and decision making styles evolved and were shaped by theological, philosophical, political, social, and environmental factors and trends. Recently, advances in technology have borne an unprecedented influence on our social environment. Contemporary thinking inevitably reflects this influence and moves us from a linear,

Thematic

The amount of published literature can be overwhelming for scientists and researchers moving from a broad disciplinary research area to a more specialized one, particularly in fields that use information from more than one discipline. Without a focused inquiry, the researcher may find too little information or may be overcome by too much. Striking the correct balance of information is the focus of Literature Search Strategies for Interdisciplinary Research. This useful reference tool studies diverse interdisciplinary areas revealing the general and individual qualities that dictate the strategies of successful searches. Beginning with a bare-bones search strategy for finding primary research in interdisciplinary areas, the book then goes on to provide hints for research in specific disciplines, as the unique traits of the individual fields compound the difficulties in interdisciplinary research. Individual chapters, written by experts in that particular area, address ten research fields in depth, disclosing the common qualities of interdisciplinary research. The study areas covered include Paleontology, Crystallography, Quaternary Research, Human Factors Engineering, Nanotechnology, Atmospheric Chemistry, Bioethics, Computational Biology, Engineering Entrepreneurship, and Machine Learning. For scientists and engineers new to their fields, as well as librarians whose responsibilities include collecting library materials for newly-emerging interdisciplinary research areas, Linda Ackerson’s guide provides all that is needed to develop a successful search strategy.

Collaborations of Consequence

Case Studies in Interdisciplinary Research

The birds, animals, insects, trees and plants encountered by the majority of the world's people are those that survive in, adapt to, or are introduced to, urban areas. Some of these organisms give great pleasure; others invade, colonise and occupy neglected and hidden areas such as derelict land and sewers. Urban areas have a high biodiversity and nature within cities provides many ecosystem services including cooling the urban area, reducing urban flood risk, filtering pollutants, supplying food, and providing accessible recreation. Yet, protecting urban nature faces competition from other urban land uses. The Handbook of Urban Ecology analyses this biodiversity and complexity and provides the science to guide policy and management to make cities more attractive, more enjoyable, and better for our own health and that of the planet. This Handbook contains 50 interdisciplinary contributions from leading academics and practitioners from across the world to provide an in-depth coverage of the main elements of practical urban ecology. It is divided into six parts, dealing with the philosophies, concepts and history of urban ecology; followed by consideration of the biophysical character of the urban environment and the diverse habitats found within it. It then examines human relationships with urban nature, the health, economic and environmental benefits of urban ecology before discussing the methods used in urban ecology and ways of putting the science into practice. The Handbook offers a state-of the art guide to the science, practice and value of urban ecology. The engaging contributions provide students and practitioners with the wealth of interdisciplinary information needed to manage the biota and green landscapes in urban areas.

Introduction to Interdisciplinary Studies

Interdisciplining Digital Humanities sorts through definitions and patterns of practice over roughly sixty-five years of work, providing an overview for specialists and a general audience alike. It is the only book that tests the widespread claim that Digital Humanities is interdisciplinary. By examining the boundary work of constructing, expanding, and sustaining a new field, it depicts both the ways this new field is being situated within individual domains and dynamic cross-fertilizations that are fostering new relationships across academic boundaries. It also accounts for digital reinvigorations of “public humanities” in cultural heritage institutions of museums, archives, libraries, and community forums.