
Program Council On Undergraduate Research

Designing and Implementing a Successful Undergraduate Research, Scholarship and Creative Activity Program
 Undergraduate Research for Student Engagement and Learning
 Engaging Undergraduates in Publishable Research: Best Practices
 Proceedings of the Conference on Promoting Undergraduate Research in Mathematics
 The Indispensable Guide to Undergraduate Research
 Creating Effective Undergraduate Research Programs in Science
 A Mathematician's Practical Guide to Mentoring Undergraduate Research
 Vocation Across the Academy
 Good Mentoring
 Proceedings of the International Conference on Transformations in Engineering Education
 Excellence in Mentoring Undergraduate Research
 Teaching to Strengths
 Discipline-Based Education Research
 Expanding Underrepresented Minority Participation
 Undergraduate Research in Online, Virtual, and Hybrid Courses
 Responsible Conduct of Research
 A Long View of Undergraduate Research
 The Roskilde Model: Problem-Oriented Learning and Project Work
 Reshaping Teaching in Higher Education
 Undergraduate Research in English Studies
 The Cambridge Handbook of Undergraduate Research
 Teaching Undergraduate Research in Religious Studies
 Undergraduate Research in Film
 Reaching Students
 Getting In
 Developing and Sustaining a Research-supportive Curriculum
 Undergraduate Research at Community Colleges
 Preparing Students for Community-Engaged Scholarship in Higher Education
 Undergraduate Research in Online, Virtual, and Hybrid Courses
 Undergraduate Research in the Sciences
 How to Mentor Undergraduate Researchers
 Assessing the Value of Research in the Chemical Sciences
 High-impact Educational Practices
 A Critical Look at Institutional Mission
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 Entering Research
 Adviser, Teacher, Role Model, Friend
 Enhancing and Expanding Undergraduate Research: A Systems Approach
 Evaluating and Improving Undergraduate Teaching in Science, Technology, Engineering, and Mathematics
 Doing Collaborative Research in Psychology

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YARETZI BALLARD

Designing and Implementing a Successful Undergraduate Research, Scholarship and Creative Activity Program

Psychology Press
 This publication, the latest report from AAC&U's Liberal Education and America's Promise (LEAP) initiative, defines a set of educational practices that research has demonstrated have a significant impact on student success. Author George Kuh presents data from the National Survey of Student Engagement about these practices and explains why they benefit all students, but also seem to benefit underserved students even more than their more advantaged peers. The report also presents data that show definitively

that underserved students are the least likely students, on average, to have access to these practices.

Undergraduate Research for Student Engagement and Learning

National Academies Press
 "Reaching Students presents the best thinking to date on teaching and learning undergraduate science and engineering. Focusing on the disciplines of astronomy, biology, chemistry, engineering, geosciences, and physics, this book is an introduction to strategies to try in your classroom or institution. Concrete examples and case studies illustrate how experienced instructors and leaders have applied evidence-based approaches to address student needs, encouraged the use of effective techniques within a department or an institution, and addressed the challenges that arose along

the way."--Provided by publisher.

Engaging Undergraduates in Publishable Research: Best Practices

John Wiley & Sons
 Biological sciences have been revolutionized, not only in the way research is conducted--with the introduction of techniques such as recombinant DNA and digital technology--but also in how research findings are communicated among professionals and to the public. Yet, the undergraduate programs that train biology researchers remain much the same as they were before these fundamental changes came on the scene. This new volume provides a blueprint for bringing undergraduate biology education up to the speed of today's research fast track. It includes recommendations for teaching the next generation of life science

investigators, through: Building a strong interdisciplinary curriculum that includes physical science, information technology, and mathematics. Eliminating the administrative and financial barriers to cross-departmental collaboration. Evaluating the impact of medical college admissions testing on undergraduate biology education. Creating early opportunities for independent research. Designing meaningful laboratory experiences into the curriculum. The committee presents a dozen brief case studies of exemplary programs at leading institutions and lists many resources for biology educators. This volume will be important to biology faculty, administrators, practitioners, professional societies, research and education funders, and the biotechnology industry.

Proceedings of the Conference on Promoting Undergraduate Research in Mathematics National Academies Press

Descriptions of summer research programs: The AIM REU: Individual projects with a common theme by D. W. Farmer The Applied Mathematical Sciences Summer Institute by E. T. Camacho and S. A. Wirkus Promoting research and minority participation via undergraduate research in the mathematical sciences. MTBI/SUMS-Arizona State University by C. Castillo-Chavez, C. Castillo-Garsow, G. Chowell, D. Murillo, and M. Pshaenich Summer mathematics research experience for undergraduates (REU) at Brigham Young University by M. Dorff Introducing undergraduates for underrepresented minorities to mathematical research: The CSU Channel Islands/California Lutheran University REU, 2004-2006 by C. Wyels The REUT and NREUP programs at California State University, Chico by C. M. Gallagher and T. W. Mattman Undergraduate research at Canisius. Geometry and physics on graphs, summer 2006 by S. Prassidis The NSF REU at Central Michigan University by S. Narayan and K. Smith Claremont Colleges REU, 2005-07 by J. Hoste The first summer undergraduate research program at Clayton State University by A. Lanz Clemson REU in computational number theory and combinatorics by N. Calkin and K. James Research with pre-mathematicians by C. R. Johnson Traditional roots, new beginnings: Transitions in undergraduate research in mathematics at ETSU by A. P. Godbole Undergraduate research in mathematics at Grand Valley State University by S. Schlicker The Hope College REU program by T. Pennings The REU experience at

Iowa State University by L. Hogben Lafayette College's REU by G. Gordon LSU REU: Graphs, knots, & Dessins in topology, number theory & geometry by N. W. Stoltzfus, R. V. Perlis, and J. W. Hoffman Mount Holyoke College mathematics summer research institute by M. M. Robinson The director's summer program at the NSA by T. White REU in mathematical biology at Penn State Erie, The Behrend College by J. P. Previte, M. A. Rutter, and S. A. Stevens The Rice University Summer Institute of Statistics (RUSIS) by J. Rojo The Rose-Hulman REU in mathematics by K. Bryan The REU program at DIMACS/Rutgers University by B. J. Latka and F. S. Roberts The SUNY Potsdam-Clarkson University REU program by J. Foisy The Trinity University research experiences for undergraduates in mathematics program by S. Chapman Undergraduate research in mathematics at the University of Akron by J. D. Adler The Duluth undergraduate research program 1977-2006 by J. A. Gallian Promoting undergraduate research in mathematics at the University of Nebraska-Lincoln by J. L. Walker, W. Ledder, R. Rebarber, and G. Woodward REU site: Algorithmic combinatorics on words by F. Blanchet-Sadri Promoting undergraduate research by T. Aktosun Research experiences for undergraduates inverse problems for electrical networks by J. A. Morrow Valparaiso experiences in research for undergraduates in mathematics by R. Gillman and Z. Szaniszló Wabash Summer Institute in Algebra (WSIA) by M. Axtell, J. D. Phillips, and W. Turner THE SMALL program at Williams College by C. E. Silva and F. Morgan Industrial mathematics and statistics research for undergraduates at WPI by A. C. Heinricher and S. L. Weekes Descriptions of summer enrichment programs: Twelve years of summer program for women in mathematics-What works and why? by M. M. Gupta Research experience for undergraduates in numerical analysis and scientific computing: An international program by G. Fairweather and B. M. Moskal Articles: The Long-Term Undergraduate Research (LURE) model by S. S. Adams, J. A. Davis, N. Eugene, K. Hoke, S. Narayan, and K. Smith Research with students from underrepresented groups by R. Ashley, A. Ayela-Uwangue, F. Cabrera, C. Callesano, and D. A. Narayan Research classes at Gettysburg College by B. Bajnok Research in industrial projects for students: A unique undergraduate experience by S. Beggs What students say about their REU experience by F. Connolly and J. A. Gallian Diversity issues in undergraduate research

by R. Cortez, D. Davenport, H
The Indispensable Guide to Undergraduate Research National Academies Press

This book comprises the proceedings of the International Conference on Transformations in Engineering Education conducted jointly by BVB College of Engineering & Technology, Hubli, India and Indo US Collaboration for Engineering Education (IUCEE). This event is done in collaboration with International Federation of Engineering Education Societies (IFEES), American Society for Engineering Education (ASEE) and Global Engineering Deans' Council (GEDC). The conference is about showcasing the transformational practices in Engineering Education space. Creating Effective Undergraduate Research Programs in Science SAGE Doing Collaborative Research in Psychology offers an engaging journey through the process of conducting research in psychology. Using an innovative team-based approach, this hands-on guide will assist undergraduates with their research—in their courses and in collaboration with faculty or graduate student mentors. The focus on this team-based approach reflects the collaborative nature of research methods and experimental psychology. Students learn how to work as a team, generate creative research ideas, design and pilot studies, recruit participants, collect and analyze data, write up results in APA style, and prepare and give formal research presentations. Students also learn practical ways in which they can promote their research skills as they apply to jobs or graduate school. A unique feature to this book is the ability to read chapters of the text either sequentially or separately, which allows the instructor or research mentor the flexibility to assign those chapters most relevant to the current state of the research project.

A Mathematician's Practical Guide to Mentoring Undergraduate Research IGI Global

Co-published with and With the growing interest in undergraduate research as a high-impact practice, and the recognition that college education is increasingly moving online, this book - the first to do so - provides a framework, guidance from pioneering practitioners, and a range of examples across disciplines on how to engage remote students in research. Two foundational chapters set the scene. For those new to incorporating undergraduate research in their courses, the opening chapter provides an introduction to its evolution and practice, and reviews the evidence of its benefits for students,

faculty, and institutions. The second addresses the benefit that undergraduate research can bring to online learning and provides an overview of the ways research can be incorporated into online and virtual courses to meet the course and student learning objectives. The remaining chapters illustrate implementation of undergraduate research in courses across many disciplines. They address thematic issues related to the work and its effects on students, such as transitioning them from users of, to active participants in, research; and consideration of the technological tools needed to support students in a virtual environment. The contributors, some of whom have been implementing these practices for some years, offer important insights and expertise. While the examples range across the behavioral sciences, business, education, the health professions, the humanities, social sciences, and STEM, readers will find much of value and inspiration from reading the chapters beyond their disciplines.

Vocation Across the Academy Springer
There is growing interest in undergraduate research, given its benefits to students, faculty members, and the institution. For higher education scholars, faculty, and administrators, this book logically synthesizes the literature to demonstrate its impact on facilitation of learning and engagement and to chart a course for expanding and improving these opportunities. This book provides a comprehensive overview of undergraduate research as a "high-impact practice" in postsecondary education, from its theoretical underpinnings and research-base, to student participation and faculty incentives. This important resource offers analysis of the current state of undergraduate research, explores challenges and unresolved questions affecting undergraduate research, and provides implications for research and practice.

Good Mentoring Council on Undergraduate Research

This book captures the messages from a workshop that brought together research managers from government, industry, and academia to review and discuss the mechanisms that have been proposed or used to assess the value of chemical research. The workshop focused on the assessment procedures that have been or will be established within the various organizations that carry out or fund research activities, with particular attention to the Government Performance and Results Act (GPRA). The book presents approaches and ideas from leaders in each

area that were intended to identify new and useful ways of assessing the value and potential impact of research activities.

Proceedings of the International Conference on Transformations in Engineering Education Taylor & Francis
Undergraduate Research (UR) can be defined as an investigation into a specific topic within a discipline by an undergraduate student that makes an original contribution to the field. It has become a major consideration among research universities around the world, in order to advance both academic teaching and research productivity. Edited by an international team of world authorities in UR, this Handbook is the first truly comprehensive and systematic account of undergraduate research, which brings together different international approaches, with attention to both theory and practice. It is split into sections covering different countries, disciplines, and methodologies. It also provides an overview of current research and theoretical perspectives on undergraduate research as well as future developmental prospects of UR. Written in an engaging style, yet wide-ranging in its scope, it is essential reading for anyone wishing to broaden their understanding of how undergraduate research is implemented worldwide.

Excellence in Mentoring Undergraduate Research National Academies Press

This guide offers helpful advice on how teachers, administrators, and career advisers in science and engineering can become better mentors to their students. It starts with the premise that a successful mentor guides students in a variety of ways: by helping them get the most from their educational experience, by introducing them to and making them comfortable with a specific disciplinary culture, and by offering assistance with the search for suitable employment. Other topics covered in the guide include career planning, time management, writing development, and responsible scientific conduct. Also included is a valuable list of bibliographical and Internet resources on mentoring and related topics.

Teaching to Strengths ASCD

"We pass on our traits through our genes but our cherished values, beliefs, and practices are transmitted through those units of meaning called memes. This remarkable book provides an authoritative account of how 'good work' endures in the sciences and has profound implications for the quality of work across the professional landscape." Howard Gardner, editor, *Responsibility at Work*, and Hobbs

Professor of Cognition and Education, Harvard University "This book should sow the seeds of greatness for protégés and mentors alike, and well beyond the discipline of science. Mentoring lineages are the hallmark of disciplines that endure and have impact, a reality that the authors powerfully communicate." Carol A. Mullen, editor, *Mentoring & Tutoring: Partnership in Learning*, and professor and chair, Department of Educational Leadership and Cultural Foundations, University of North Carolina at Greensboro "Good Mentoring is a landmark study with implications for the continued vibrancy of any discipline. This is a fresh, eye-opening perspective on the social transmission of professional lineages." Daniel Goleman, author, *Emotional Intelligence and Social Intelligence*

Discipline-Based Education Research Routledge

"This compendium of successful curricular and institutional practices to develop critical research skills emphasized the importance of the collective efforts of the undergraduate community to integrate research and education. By collecting and disseminating a variety of mechanisms that are effective means of creating a research-supportive undergraduate curriculum, the Council on Undergraduate Research aims to encourage faculty and institutions to continue to seek creative, useful, and significant ways to promote "learning through research"."--Publisher's description.

Expanding Underrepresented Minority Participation National Academies Press

Undergraduate Research in Film: A Guide for Students supplies tools for building research skills, with examples of undergraduate research activities and case studies on projects in the various areas in the study of film, film theory, film production, history of film, and interdisciplinary projects. Professors and students can use it as a text and/or a reference book. Essentially, what makes this volume unique is that it brings together examples of film projects and film studies courses within the framework of research skills. Following an overview chapter, the next seven chapters cover research skills including writing literature reviews, choosing topics and formulating questions, working with human subjects, collecting and analyzing data, citing sources and disseminating results. A wide variety of sub-disciplines follow in chapters 9-16 with sample project ideas from each, as well as undergraduate research conference abstracts. The final chapter is an annotated guide to online resources. All chapters begin with inspiring quotations

and end with relevant discussion questions.

Undergraduate Research in Online, Virtual, and Hybrid Courses John Wiley & Sons

Co-published with the Council on Undergraduate Research This book highlights the exciting work of two-year colleges to prepare students for their future careers through engagement in undergraduate research. It emerged from work in five community college systems thanks to two National Science Foundation grants the Council for Undergraduate Research received to support community colleges' efforts to establish undergraduate research programs. Chapters one, two, and three provide background information about community colleges, undergraduate research, and the systems the author worked with: California, City University of New York, Maricopa Community College District - Arizona, Oklahoma, and Tennessee. Chapter four examines success strategies. The next five chapters look at five approaches to undergraduate research: basic/applied, course-based, community-based, interdisciplinary, and partnership research. Chapters ten, eleven and twelve discuss ways to assess and evaluate undergraduate research experiences, inclusive pedagogy, and ways to advance undergraduate research. Today there are 942 public community colleges in the United States, providing affordable access to 6.8 million students who enrolled for credit in one of the public two-year institutions in the United States. Students are more prepared for the next step in their education or careers after participating in quality UR experiences.

Responsible Conduct of Research Parlor Press LLC

Teaching Undergraduate Research in Religious Studies offers an introduction to the philosophy and practice of Undergraduate Research in Religious Studies and takes up several significant ongoing questions related to it. For those new to Undergraduate Research, it provides an overview of fundamental issues and pedagogical questions and practical models for application in the classroom. For seasoned mentors, the book acts as a dialogue partner on emerging issues and offers insight into pertinent questions in the field based on experience of recognized experts.

A Long View of Undergraduate Research Frontiers Media SA

Half the students in U.S. schools are experiencing or have experienced trauma, violence, or chronic stress. Much has been written about these students from a

therapeutic perspective, especially regarding how to provide them with adequate counseling supports and services. Conversely, little has been written about teaching this population and doing so from a strengths-based perspective. Using real-world examples as well as research-based principles, this book shows how to * Identify inherent assets that students bring to the classroom. * Connect to students' experiences through instructional planning and delivery. * Foster students' strengths through the use of predictable routines and structured paired and small-group learning experiences. * Develop family and community partnerships. Experts Debbie Zacarian, Lourdes Alvarez-Ortiz, and Judie Haynes outline a comprehensive, collaborative approach to teaching that focuses on students' strengths and resiliency. Teaching to Strengths encourages educators to embrace teaching and schoolwide practices that support and enhance the academic and socio-emotional development of students living with trauma, violence, and chronic stress.

The Roskilde Model: Problem-Oriented Learning and Project Work Routledge

This book describes the pedagogical foundations of the Roskilde Model of education and educational design. It presents knowledge about how principles of problem-oriented, interdisciplinary and participant-directed project work may serve as a basis for planning and applying educational activities at institutions of higher learning. It discusses the dilemmas, problems, and diverging views that have challenged the model, provoking experiments and reforms that have helped develop practice without compromising the key principles. The Roskilde Model combines various student-centered learning concepts into a nexus, providing the foundation for a consistent pedagogical practice that is strongly supported by the educational structure and the academic profile of the university. A complex concept, the Roskilde Model refers to three different aspects: The first one is problem-oriented interdisciplinary and participant-directed project work (PPL). At Roskilde University, half of all study activities are organized in line with this particular pedagogical approach. The second aspect the model refers to is the organizing of university education on the basis of four interdisciplinary bachelor programmes. These programmes are part of the humanities, social sciences, natural sciences, and humanistic-technological

sciences and give admission to two-year master programmes in a broad range of disciplines. The third aspect the model refers to is the interdisciplinary academic and educational profile of the university. *Reshaping Teaching in Higher Education* Cambridge University Press

Recent scandals and controversies, such as data fabrication in federally funded science, data manipulation and distortion in private industry, and human embryonic stem cell research, illustrate the importance of ethics in science. *Responsible Conduct of Research*, now in a completely updated second edition, provides an introduction to the social, ethical, and legal issues facing scientists today.

Undergraduate Research in English Studies Routledge

Community-engaged scholarship is an equitable and democratic approach to scholarship that seeks to identify and solve community-based problems. Community-engaged scholars aim to serve the public good by developing and sustaining community-campus partnerships built on trust, reciprocity, and mutual benefit. As universities orient themselves towards serving the public good, they face a number of challenges: faculty and students may not possess the competencies or commitment to build fruitful community partnerships, graduate and undergraduate students may lack the necessary training and mentorship required to develop their identity as community-engaged scholars, and institutional leaders may not know how to motivate faculty and students for this ambitious and challenging endeavor. Unless these challenges are addressed, universities will fail to prepare the next generation of community-engaged scholars. *Preparing Students for Community-Engaged Scholarship in Higher Education* is an essential research book that explores how faculty and academic leaders can create learning opportunities and intellectual cultures that support the development of community-engaged scholars. Additionally, it will examine how university coursework can help undergraduate and graduate students to develop the knowledge, skills, and commitments necessary for productive and responsible community-engaged scholarship. Featuring a range of topics such as mentorship, higher education, and service learning, this book is ideal for higher education faculty, university leaders, deans, chairs, educators, administrators, policymakers, curriculum designers, academicians, researchers, and students.

Best Sellers - Books :

- [Adult Children Of Emotionally Immature Parents: How To Heal From Distant, Rejecting, Or Self-involved Parents By Lindsay C. Gibson Psyd](#)
- [Beyond The Story: 10-year Record Of Bts By Bts](#)
- [Little Blue Truck's Valentine](#)
- [American Prometheus: The Triumph And Tragedy Of J. Robert Oppenheimer By Kai Bird](#)
- [A Court Of Mist And Fury \(a Court Of Thorns And Roses, 2\) By Sarah J. Maas](#)
- [Oh, The Places You'll Go! By Dr. Seuss](#)
- [Twisted Hate \(twisted, 3\) By Ana Huang](#)
- [The 5 Love Languages: The Secret To Love That Lasts By Gary Chapman](#)
- [Rich Dad Poor Dad: What The Rich Teach Their Kids About Money That The Poor And Middle Class Do Not! By Robert T. Kiyosaki](#)
- [Taylor Swift: A Little Golden Book Biography](#)