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**Discipline Based
Education Research**

A
Discipline-Based
Education Research is
based on a 30-month
study built on two
workshops held in
2008 to explore
evidence on promising
practices in
undergraduate science,
technology,
engineering, and
mathematics (STEM)
education. This book
asks questions that are

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essential to advancing
DBER and broadening
its impact on
undergraduate science
teaching and learning.

Discipline-Based Education Research: Understanding and

...

The authors, long-time contributors to the science education community, provide rubber-meets-the-road guidance to both first-time and experienced

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researchers, to get projects off the ground with the goals of improving classroom practice and contributing to the knowledge base on the teaching and learning of science. Discipline-based education research is much like traditional scientific research in that using different instruments sometimes results in unexpected answers.

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**Discipline-Based
Education Research:
A Guide for ...**

Discipline-based education research (DBER) is an interdisciplinary research enterprise that "investigates learning and teaching in a discipline [normally from the STEM fields] from a perspective that reflects the discipline's priorities, worldview, knowledge, and

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practices."

Research A Guide **Educational research** **- Wikipedia**

Discipline-based education research (DBER) in engineering encompasses the study of teaching and learning in engineering from the perspective of engineering as a whole and the individual engineering disciplines – their domain knowledge, practices, culture, world outlook,

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and concerns. It is the study of the teaching and learning of our youngest engineering hopefuls to the practices and wisdom of our retiring engineers and all students and practitioners in between.

Research - Discipline-Based Education Research | College

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The CiDER REU Twitter

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Poster Symposium is a showcase of undergraduate summer research.

Discipline-based education researchers, STEM Education researchers, STEM instructors, and other members of the public are encouraged to digitally attend and participate in the symposium.

**Collaborations in
Discipline-based**

Download Free Discipline Based Education **Education Research**

Education Research As the previous chapters show, discipline-based education research (DBER) is a relatively new area of research composed of a set of loosely affiliated fields with common goals and methods. The fields share some common history, but follow unique trajectories that reflect the characteristics of their parent disciplines.

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3 Overview of Discipline-Based Education Research

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The primary goal of the Discipline-Based Education Research (DBER) group is to study college-level STEM education through learning sciences and education research that is grounded within the cognate expertise of STEM disciplines.

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DBER | Discipline Based Education Research Group ...

Discipline-Based
Education Research:
Understanding and
Improving Learning in
Undergraduate Science
and Engineering The
National Academy of
Sciences is a private,
nonprofit, self-
perpetuating society of
distinguished scholars
engaged in scientific
and engineering

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For Scientists

research, dedicated to

**Discipline-Based
Education Research:
Understanding and**

...

Black students in the United States are subject to disciplinary action at rates much higher than their white counterparts. These disciplinary actions put students at higher risk for negative life outcomes, including involvement in the

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criminal justice system.
Using federal data
covering over 32
million students at
nearly 96,000 schools,
our research
demonstrates that the
disciplinary gap ...

Racial disparities in school-based disciplinary actions

...

At the International
Society for the
Scholarship of
Teaching and Learning

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2017, a panel discussion explored the crossover between Scholarship of Teaching and Learning (SoTL), Educational Research as a discipline within itself, and Discipline Based Educational Research (DBER), and the conflicts that can arise between these fields (17).

**Frontiers | Discipline-
Based Education**

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**Research for Animal
... Research A Guide**

For Scientists

Independent study to
conduct discipline
based education
research The Lane
research group is
looking for 1-2
undergraduate
student(s) to engage in
an independent study
in the Fall 2020
semester conducting
discipline based
education research.
The number of
hours/credits is

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flexible.

Research A Guide
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**Independent study
to conduct discipline
based education ...**

The POGIL Project is pleased to announce an opportunity for POGIL educators to build their expertise in Discipline-Based Education Research (DBER). This National Science Foundation sponsored project (pending final approval) will allow

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participants to contribute to deepening the understanding of how POGIL pedagogy supports student learning.

POGIL | Discipline-Based Education Research (DBER)

Discipline-Based Education Research Education and Training as Personalized Learning “ Training is for certainty, education

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is for uncertainty, and we are living in increasingly uncertain times.” This statement emphasizes the important role of education in times when training, a skill and task-oriented endeavor, is gaining increased attention.

**Discipline-Based
Education Research |
Trajectory Magazine**
Discipline-based
Education Research

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(DBER) is discipline-specific research on students' understanding of concepts, their problem solving skills, cognitive skills, learning difficulties and attitudes towards learning. It is grounded in strong scientific content knowledge combined with knowledge of teaching and learning theory.

Discipline-based

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**Education Research |
STEM-CORE Seminar
Research Guide
For Scientists**

Discipline Based
Education Research. I
read the blog post by
my friend and
colleague Joe Krajcik
with interest (link). My
trajectory to science
education is quite
different but it is
fascinating how given
our different
backgrounds and
trajectories that we
have come together at

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the CREATE institute with very similar philosophies and goals, working on similar kinds of projects, and looking forward with great optimism.

Discipline Based Education Research | CREATE for STEM

"Discipline-Based Education Research" is based on a 30-month study built on two workshops held in 2008 to explore

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evidence on promising practices in undergraduate science, technology, engineering, and mathematics (STEM) education.

ERIC - ED536478 - Discipline-Based Education Research

...

Discipline-based education research (DBER) is an emerging field that integrates the worldview, disciplinary

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priorities, content knowledge and practices shared by scientists and engineers with current research on human learning and cognition.

Discipline-Based Education Research :: School of Medicine

...

Education Research Dr. Danielle Condry undertakes discipline-based education research (DBER),

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specifically with
science classes in
higher education.
Although teaching is an
old art, we are always
looking for ways to
improve education
practice through valid,
evidence-based data.

Education Research | Microbiological Sciences | NDSU

Jobs in Discipline-Based
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Research T his is a Job
Board for positions

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related to discipline-based science education research, including post-doctoral positions, faculty positions, industry positions, undergraduate research experiences, and more. Only members can post on this job board.

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