

# Lessons Learned Along the Way: KSP609 Research Methods

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# Web-based Learning Concepts

- Learner centered web recommendations – safe environment/sense of community; facilitate; offer student choice; vary pedagogical activities (Bonk & Cummings, 1998).
- Move learners from passive to active participation, from instructor-directed tasks to self-driven tasks, from non-evaluative sharing to true collaboration (Rodes, Knapczyk, Chapman & Chung, 2000).

# Web-based Learning Concepts, cont.

- The importance of community for safe learning; how to implement communication and collaboration strategies to enhance learner community and cognitive engagement (Liu, Magjuka, Bonk, & Lee, S., 2007)

# Forms of Feedback Used

- Original course web-structure, Summer 2009
- Research influence and past web-based instruction experience
- Fall 2009 Student Feedback
- Logistics of Spring 2010 student locations and pedagogical issues
- MSU Online Course Peer Review Rubric
- Linda Jacoby, Ph.D. Peer Review feedback memo and consulting meeting

# Example: Integration of Library Mini-Modules

- Collaboration with Lisa Baures, MSU Research Librarian
- Rationale for going to web-based modules
- Content and participation learning objectives developed
- Choice of ISpring software

## Research Methods 609 01

### Library Information Mini-Modules

- [Learning Object One: Literature Review](#)
- [Sage eReference Access](#)
- [Adobe Shockwave Player](#)
- [Learning Object Two: Critical Reading Tips](#)
- [Learning Object Three: Research Question Checklist](#)
- [Links to Resources in Learning Object Three](#)
- [Literature Review Learning Object 2a: Research Questions as a Touchstone: Strategies for Retrieving Information](#)
- [Literature Review Learning Object 2b: Developing and Implementing Information Search Strategies with Precision: Using Boolean](#)
- [Literature Review Learning Object 2c: Developing and Implementing Information Search Strategies with Precision: Using Controlled Vocabulary](#)
- [Documentation Guidelines for Citing Sources: APA Style Manual](#)
- [RefWorks: Create With Ease in APA Style Format In-text Citations, Reference Lists, and Bibliographies](#)

### Powerpoint Slides for Each Mini-Module

- [Learning Object One: Literature Review](#)
- [Learning Object Two: Critical Reading Tips](#)
- [Learning Object Three: Research Question Checklist](#)
- [Retrieving Information: Search Strategies](#)
- [Research Search Strategies: Using Boolean](#)
- [Research Search Strategies: Using Controlled Vocabulary](#)
- [Guidelines for Citing Sources: APA Style Manual](#)
- [RefWorks](#)

### Project Proposal

# ISpring Example of Library Module

- Controlled Vocabulary --
- characteristics
  - mandated
  - predefined
  - authorized
- function precludes identifying
  - homographs
  - synonyms
  - spelling variations
  - variant terminology

## keyword search results

## beyond the classroom

1. [Collaborative Activities Enabled by GroupScribbles \(GS\): An Exploratory Study of Learning Effectiveness](#)

[Looi, Chee-Kit](#); [Chen, Wenli](#); [Ng, Foo-Keong](#)

**Computers & Education**; v54 n1 p14-26 Jan 2010

... are supported by the GroupScribbles (GS) software **technology** in two Singapore primary science classrooms. The students had ten weeks of GS-based lessons in science, which were co-designed by teachers and researchers to teach the curriculum ...

**Accession Number:** EJ860876

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**Database:**

ERIC

**Descriptors:**

[Student Attitudes](#) | [Learning Activities](#) | [Academic Achievement](#) | [Foreign Countries](#) | [Educational Technology](#) | [Classrooms](#) | [More...](#)

2. [Effectiveness of a Mobile Plant Learning System in a Science Curriculum in Taiwanese Elementary Education](#)

[Huang, Yueh-Min](#); [Lin, Yen-Ting](#); [Cheng, Shu-Chen](#)

**Computers & Education**; v54 n1 p47-58 Jan 2010

... Taiwan. To extend opportunities for learning beyond the **classroom**, this study used personal digital assistants (PDAs) equipped with the MPLS, which provided both teachers and students access to plant information while in the field. A quasi-experimental ...

**Accession Number:** EJ860879

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ERIC

**Descriptors:**

[Research Design](#) | [Test Results](#) | [Elementary Education](#) | [Program Effectiveness](#) | [Botany](#) | [Foreign Countries](#) | [More...](#)

3. [Impacts of Mobile Computing on Student Learning in the University: A Comparison of Course Assessment Data](#)

[Hawkes, Mark](#); [Hategekimana, Claver](#)

**Journal of Educational Technology Systems**; v38 n1 p63-74 2009-2010

... selected courses showed that the integration of wireless **technology** and highly functional computing tools did not have a negative effect on student assessment results. Out of the four courses evaluated, none of the revealed test scores were statistically ...

**Accession Number:** EJ864508

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**Database:**

ERIC

**Descriptors:**

[Control Groups](#) | [Academic Achievement](#) | [Data Analysis](#) | [Scores](#) | [Comparative Analysis](#) | [Experimental Groups](#) | [More...](#)

4. [Guidance and Advisement Programs Are Proof That Schools Want Their Students to Succeed](#)

**Southern Regional Education Board (SREB)**; 10pp. Dec 2009.

... in this issue include: (1) Advisory Program Boosts **Achievement** and Career Planning; (2) District-Wide Guidance Program Assists Students at All Levels; (3) High-Minority School Motivates Students to Take Rigorous Courses; (4) High-Minority ...

**Corporate Author:** Southern Regional Education Board

**Accession Number:** ED504588

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**Database:**

ERIC

**Descriptors:**

[High Schools](#) | [School Guidance](#) | [Academic Achievement](#) | [Career Planning](#) | [Minority Groups](#) | [Student Motivation](#) | [More...](#)



# Future Directions for KSP609

- Get further Spring 2010 student feedback
- Adjust and enhance Library modules
- Address further suggestions from Linda Jacoby's online peer review feedback
- Design additional content area modules (qualitative research concepts, etc.)  
incorporating more student interaction with content and peers