

# ELIS - Embedded Library Instruction Services Lake Superior Libraries Symposium

**Michael Strahan**

Associate Professor, Library Science, Olson Library,  
Academic Information Services (AIS)

**SaraJane Tompkins**

Associate Professor, Library Science, Olson Library, AIS

**Northern Michigan University  
Marquette**

# What is ELIS - Embedded Library Instruction Services ?

- **Personal pro-active** library instruction
- All types of courses: web-enhanced, hybrid, and online-only
- Delivered via course management system (CMS), wiki, and NMU Listserv
- All levels: one-year certificate through doctorate

# Five Aspects of ELIS

- Library Resources
- Course-specific Library Instruction
- Methods of Delivery
- Collaboration
- Needs Assessment

# ELIS - Embedded Library Instruction Services

Key to Success:

TRUST

between AIS Faculty &  
Course Instructor

# The Team

- NMU President, Provost, Deans, Department Heads, & Program Directors
- Ten AIS Faculty (librarians + archivist)
- Center for Instructional Technology in Education (CITE)
- Course Instructors

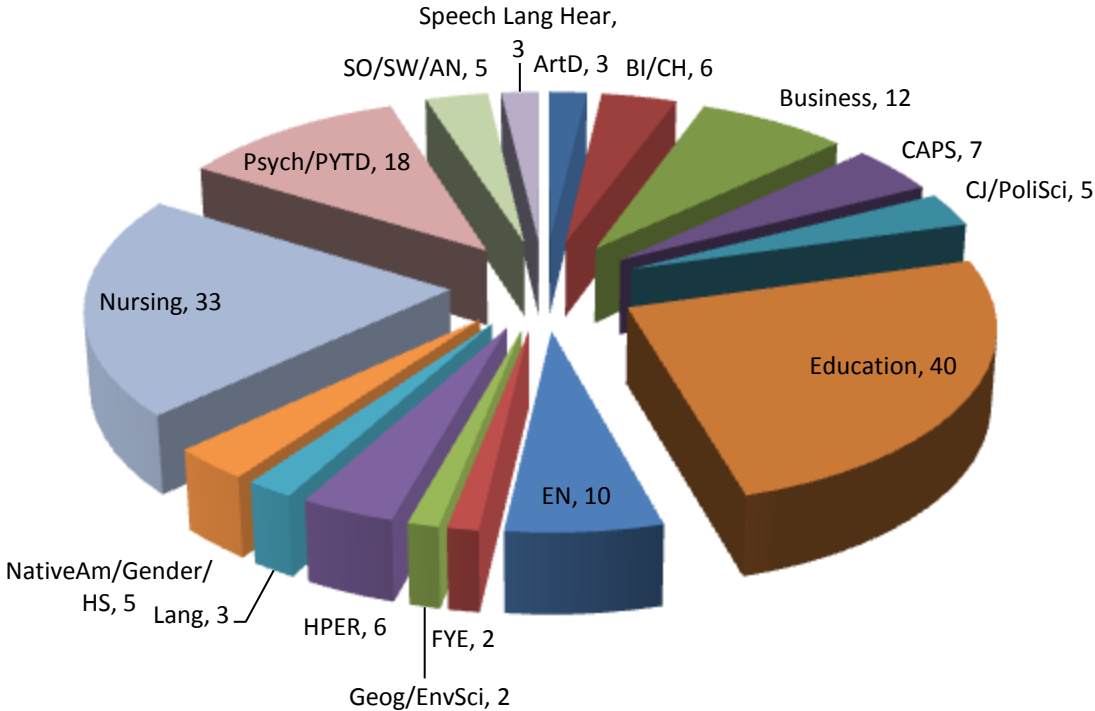
# The History

- 2000
  - Presence in WebCT through “test student” (generic identity)
  - Librarian and CJ instructor collaborated (LI & co-author assignments)
  - Links to librarian & library guides
  - Instructor-created Library discussion threads
  
- 2004
  - Presence in WebCT as “guest speakers” (real name identity)
  - Librarian-created Library discussion threads
  - Librarian sessions using Mediasite Live streaming
  - Expansion into Education & Nursing programs

# More History

- 2009
  - Presence in WebCT as “embedded librarian”
  - Developed and implemented new policies & procedures
  - AIS Dean designated ELIS as 1 of 5 Library Strategic Directions for NMU's [Road Map to 2015](#)
- 2010 - NMU implemented Moodle™ (branded as NMU EduCat™ )
- 2011 - ELIS becomes one of the Library's AQIP (Academic Quality Improvement Program) assessment projects for FY 2012

# Number of Courses by Department/Area with Embedded AIS Faculty 160 Cumulative 2000-2012





# ELIS Growth

- Initial implementation and promotion through Library Liaison Program
- Campus-wide promotion began Fall 2011
- ELIS Request form for NMU instructors
- Current semester courses with Embedded AIS faculty (automatically generated nightly)

# ELIS Presence

## Fall 2009 semester

- Total WebCT sections: 948
- Total ELIS presence: 17 sections
- ELIS share in WebCT: 1.8 %
- Total Library Instruction (incl. ELIS): 130
- ELIS share of LI: 13%
- AIS faculty embedded: 4 of 9

# ELIS Presence

## Winter 2012 semester

- Total EduCat sections: 1,056
- Total ELIS presence: 82 sections
- ELIS share in EduCat: 7.8%
- Total Library Instruction (incl. ELIS): 143
- ELIS share of LI: 57%
- AIS faculty embedded: 8 of 10

# How Students Contact Us for Help

- Discussion threads / forums
- e-mail
- Phone
- IM/chat
- Skype
- Facebook
- Meet in-person

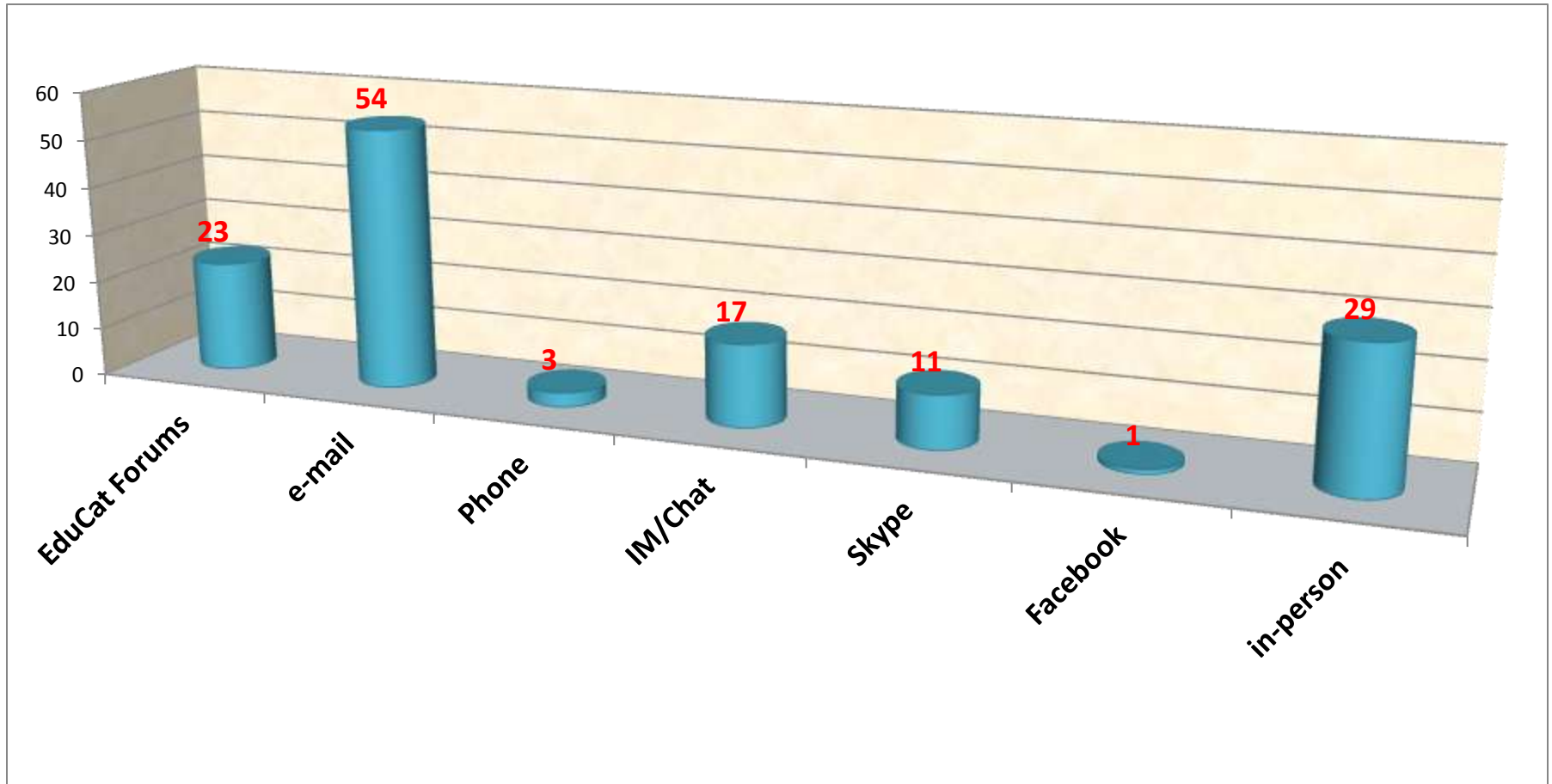
# Additional Assistance

- [Library Distance Education Services](#)
- Virtual office hours
- Personal on-the-fly videos ([Jing](#)) (free)
- [Acrobat.com](#) online meeting & desktop sharing (fee/free)
- Public Services desk

# AIS Faculty - Instructor Collaboration

- Assignments
- Bibliographic Styles
- Go-to person for problem solving
  - Computer access issues
  - Resource scarcity
  - Instruction in course delivery tools

# Number of Questions Answered Winter 2012 by Method Received 138 Total



# ELIS Benefits / Costs

---

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Embedded faculty are familiar with assignments, so students receive personal instruction inside course at point of need.</li><li>• Strengthens connection between library, course instructor, &amp; students.</li><li>• Helps new instructors &amp; students become familiar with library resources.</li><li>• Resources customized for individual course assignments.</li><li>• Provides library instruction where traditional methods not feasible.</li></ul> | <ul style="list-style-type: none"><li>• Learning how to use CMS to deliver assistance.</li><li>• Initial time to build customized template for each department/program.</li><li>• Time to add content beyond template to some courses.</li><li>• Checking library discussion &amp; general course postings/announcements.</li></ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



# ELIS Presence in CMS

- Olson Library Blocks
  - Customized OneSearch (Summon) widget
  - Video tutorials
  - Library & Style Guides
  - Course-specific resources
  - Zotero
  - How to contact embedded faculty
- Research Assistance Forum

# ELIS Module - WebCT (old)

The screenshot displays the WebCT Campus Edition interface at Northern Michigan University (NMU). The top navigation bar includes the course title "NE 420 - COMMUNITY HEALTH NURSING AND CONTINUITY OF CARE (THEORY) - NE420AS" and the user's role "Student View". The main content area is titled "Table of Contents for ELIS: Embedded Librarian Instructional Services - Nursing" and lists various resources and services. The table of contents is organized into numbered sections:

- 1 First Task: Register for ILL Services
  - 1.1 [Interlibrary Loan \(ILL\) Policies](#)
  - 1.2 [ILL Registration](#)
- 2 Help from your Embedded Medical Librarian, Prof. Mike Strahan
  - 2.1 [Live Chat/IM with Mike \(outside of WebCT\) \(no account required\)](#)
  - 2.2 [E-mail Mike \(write course # in subject\): mstrahan@nmuedu](#)
  - 2.3 [Call Mike @ \(906\) 227-2463](#)
  - 2.4 [Visit Mike at the Library](#)
    - 2.4.1 [@ the Reference Desk: Tues. 6pm-10pm; Thur. 5pm-7pm; Fri. 11am-1pm](#)
    - 2.4.2 [@ his office \(by appointment\): LRC 233](#)
  - 2.5 [Ask Mike the Librarian \(Discussion thread--not private\) \[checked Tu/Thu/Fri\]](#)
  - 2.6 [APA Q & A - Ask Mike / Anna \(Discussion thread--not private\) \[checked Tu/Thu/Fri\]](#)
- 3 Researching Your Topic (Databases, Resources, & Services)
  - 3.1 Library Instructional Videos
    - 3.1.1 [Community Health Stats \(NE420-W05 sem.\) \(85 minutes\)](#)
    - 3.1.2 [How to Search CINAHL Database \(FORTHCOMING\) \(brief Flash video\)](#)
    - 3.1.3 [How to Search PsycINFO Database \(brief Flash videos\)](#)
    - 3.1.4 [Nurs. Grad. Library Orientation \(2008\) Part 1 - CINAHL, ILL, APA \(98 minutes\)](#)
    - 3.1.5 [Nurs. Grad. Library Orientation \(2008\) Part 2 - Finding Journals Online, Cochrane & STAT!Ref \(62 minutes\)](#)
    - 3.1.6 [Other Videos](#)
  - 3.2 Library Guides
    - 3.2.1 [Health Statistics/Community Health/Epidemiology \(Bookmark this page!\)](#)
    - 3.2.2 [Comprehensive Nursing & Medical Guide w/ Database Links \(Bookmark this page!\)](#)
    - 3.2.3 [Evidence-based Practice Resources](#)
    - 3.2.4 [Nursing Job Hunting & After Graduation low-cost/freshly-accessible resources](#)
  - 3.3 Nursing-related Online Reference Sources
    - 3.3.1 [STAT!Ref - Online Medical & Nursing Books + anatomy.tv \(3D anatomy\)](#)
    - 3.3.2 [A Dictionary of Nursing \(2008\)](#)
    - 3.3.3 [The Oxford Companion to Medicine](#)
    - 3.3.4 [A Dictionary of Food and Nutrition \(2009\)](#)
    - 3.3.5 [Gale Encyclopedia of Cancer](#)
    - 3.3.6 [Gale Encyclopedia of Genetic Disorders](#)
    - 3.3.7 [Oxford Reference Online - Medicine & Nursing titles](#)
  - 3.4 Library Catalogs
    - 3.4.1 [NMU Library Catalog \(new 2009 interface\)](#)
    - 3.4.2 [WorldCat \(44,000+ libraries worldwide\)](#)
- 4 NMU Olson Library does not have materials you need?
  - 4.1 [Click here to request articles through Interlibrary Loan](#)
  - 4.2 [Click here to search for & request books, videos, etc. \(not articles\) through MelCat \(sent directly to your local Michigan library\)](#)
- 5 APA Style Tools (6th ed, 2010)
  - 5.1 Zotero - Free References & Research Resources Management browser extension (Firefox, Netscape, Flock) w/ Microsoft Word & Open Office Plugin
    - 5.1.1 [Zotero Information & Download Plug-ins](#)
    - 5.1.2 [Zotero How-to Videos \(FORTHCOMING\) \(brief Flash videos produced by Olson Library\)](#)
  - 5.2 [Mike's APA Quick Help for referencing Nursing materials \(rev. 10/16/09\) - Click F5 to refresh display](#)
  - 5.3 [What's New in the Sixth Edition of the Publication Manual?](#)
  - 5.4 [APA Style Tutorial Videos \(produced by APA\)](#)
  - 5.5 [APA Reference Style How-to Videos \(Brief, produced by Olson Library\)](#)
  - 5.6 [APA Reference Style - Citing in-text \(Diana Hacker\)](#)
  - 5.7 [APA Sample Papers from APA Style web site \(Notes: tables & figures are published, not submitted manuscript formats\)](#)
  - 5.8 [APA Captioning & Citing of Tables & Figures](#)
  - 5.9 [APA Referencing article excerpts published in books](#)

# Current Examples of ELIS

Embedded AIS Faculty in

NMU EduCat<sup>TM</sup>  
(NMU login only)

# Example of ELIS (screen shots)

During the presentation, we demonstrated how ELIS looked in different courses. Since these are not accessible to the public, the following 4 slides show the customized ELIS resources in Forums (center) and blocks (right side).

# ELIS Module - EduCat basic (no embedded liaison)

Course: ELIS 101 ELIS - Embedded Librarian Instruction Services - ELIS101MS - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Course: ELIS 101 ELIS - Em... +

nmu.edu https://educat.nmu.edu/moodle/course/view.php?id=58&sesskey=1a7kb9JqPD&switch

Vger 1 Sq GA GS GR G Vry DS F C S CN CB W D G MG DB N A IC s B MY bl EduCat™ L Adp

**NMU Olson Library**  
(generic library block; no library forums)

- OneSearch (advanced search)
- Library Catalog
- Databases: Subject-Specific A-Z
- Library Course Guides
- Library User Guides (APA, MLA, Legal Research, etc.)
- "Ask Us" Research & Searching Help (chat, e-mail, phone, etc.)

NMU EduCat™ powered by Moodle.

You are logged in as Michael Strahan: Student (Return to my normal role)

zotero

# ELIS Module - EduCat Customized (with embedded liaison)

Course: ED 500 Educational Research - ED500JP - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Course: ED 500 Educational... +

nmu.edu https://educat.nmu.edu/moodle/course/view.php?id=423&edit=0&sesskey=1a7kb9Jqf - Google

Vger 1 Sq GA GS GR G Vry DS F C S CN CB W D G MG DB N A IC s B MY bl EduCat™ L Adp

**Instructor Contact Information**  
Instructor: Judy Puncocchar  
email: jpuncoch@nmu.edu  
phone: 906-227-1366

**Activities**  
Assignments  
Forums  
Resources

**Administration**  
Turn editing on  
Settings  
Outcomes  
Files  
Profile

**People**  
Participants

**Topic outline**

**Course Information**

- Syllabus: See Page 4 for our course road map.
- Instructor Biography
- Questions, Research Suggestions, and General Information
- Statistics Videos **70 unread posts**
- Galvan Tips
- News forum

**Important! If your mailing address is 35 or more miles from Marquette, please register for LDES (Library Distance Education Services) to receive materials requested through inter-library loan (ILL).**

**Ask Mike!**

**Research without tears: Library Research, Literature Searching, & APA Assistance from Prof. Mike Strahan, your embedded librarian. Personal help is available through ELIS links in Library Block on right, or forums below:**

- Research Search Questions
- APA (6th edition 2010) Q & A
- MLA to APA Reference Style Transition Help Sheet
- Course Evaluation

Problems accessing online articles? Download, install, and run NMU's free CISCO VPN software:

- Cisco VPN for Windows
- Cisco VPN for Mac OS X 10.4 or greater

**ELIS - Embedded Library**  
**Instruction Services**

**"OneSearch"**  
This search engine is customized for ED 500 students (i.e., returns results for only scholarly & peer-reviewed English language research articles). If you see a dragon-looking creature (Shibboleth), log on to continue searching.

Submit Query

How to use OneSearch (flash video)

ELIS guide with APA DOI tools

APA guide with DOI tools & extensive examples

Cabell's directory of publishing opportunities in education!

zotero

# ELIS Module - EduCat Customized (with embedded liaison—more blocks)

Course: ED 500 Educational Research - ED500JP - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Course: ED 500 Educational... +

nmu.edu https://educat.nmu.edu/moodle/course/view.php?id=423&edit=0&sesskey=Ia7kb9Jqf

Vger 1 Sq GA GS GR G Vry DS F S CN CB W D G MG DB N A IC s B MY bl EduCat™ L Adp


Discussion forums for Galvan tips and statistics videos are under **Course Information** near the top of our course.

- Directions for Module 1
  - Introductions
  - WELCOME and Introductions
  - Photographs
  - Librarian Professor Mike Strahan
  - Hot Topics in Educational Research
  - ELIS (Embedded Librarian Instructional Services)
  - Confidentiality Statement
  - Confidentiality Statement
  - Time Log (Excel file)

**Module 2: What is empirical research?**

Discussion forums on statistics videos and Galvan text are near the top of our course.

Directions for Module 2

Click on the video icon to start the statistics videos.  Look for this icon to play FREE video.

- DRY MIX
- Introduction to Research (research process)
  - Part A
- Tips for Evaluating Sources
- Sample Article Critique format
  - Article Critique 1

Google Scholar (NMU version)

Free complete dissertations online

Reminder: Check Library Forums

APAstyle.org Blog

Skype: mike-at-nmulibrary  
click here to download Skype

How to Ask Mike! for help

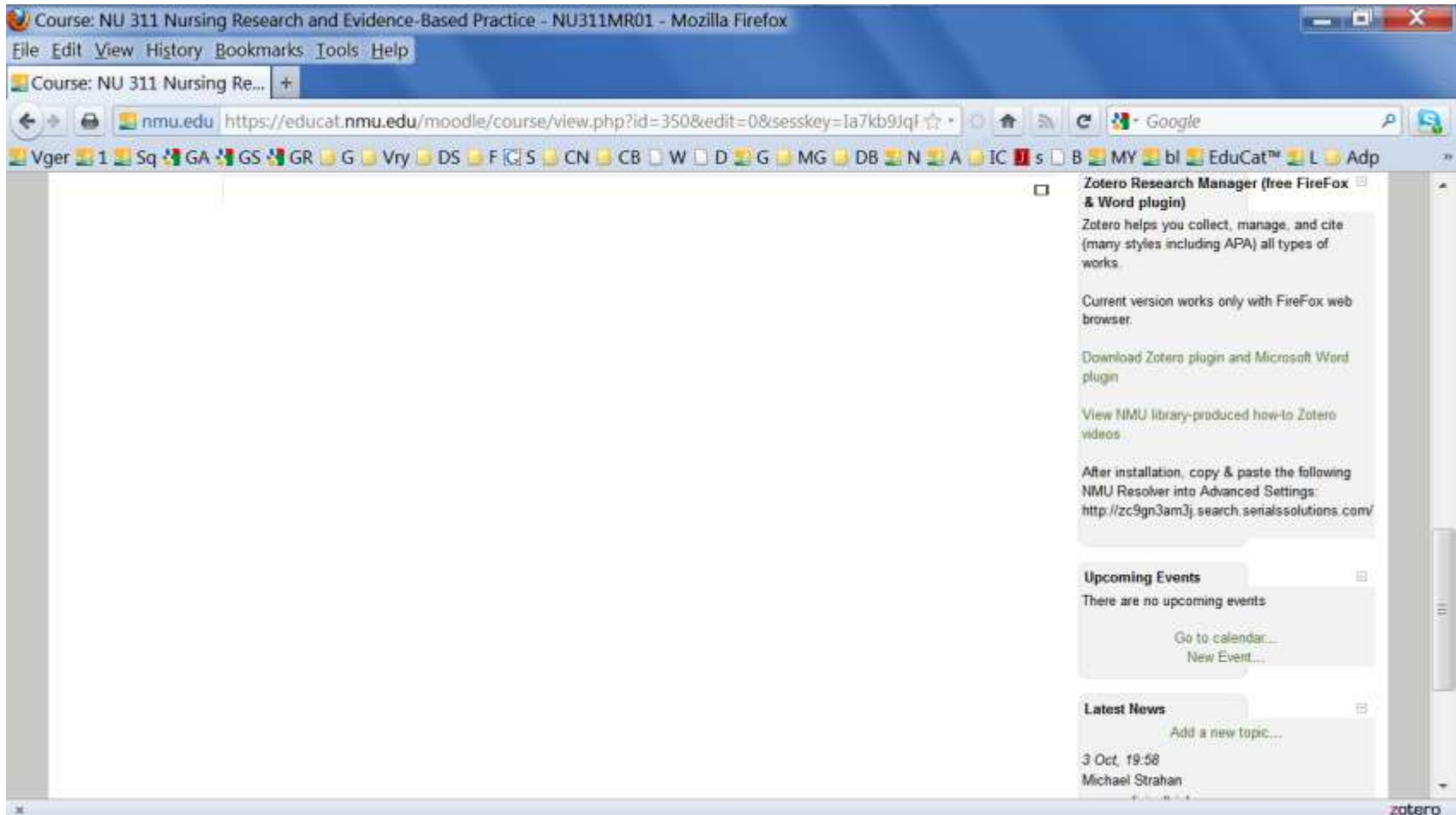
Found a reference which you want to acquire?

Copy & paste the title in the search box below. If you see a dragon-looking creature, log on to continue searching.

Search

zotero

# ELIS Module - EduCat Customized (with embedded liaison & Zotero block)





# Assessment

Library's FY 2012 AQIP plan specified:

"The method of delivery will be considered effective if 75% of students are able to complete their library research successfully, based on the information gathered by the assessment instrument."

# Assessment

- Summer 2011 - Researched & designed instrument (rubric)
- Fall 2011 & Winter 2012 - Identified pilot group of 3 Nursing courses requiring library research
- Course instructors volunteered
- Instructors applied rubric to one course section while grading papers.

# Assessment Winter 2012

Face-to-Face only - No ELIS

NU 421 - Nursing Issues Seminar

Face-to-Face + ELIS

NU 311 - Nursing Research

Online-only + ELIS

NU 322 - Pediatric Clinic

# The Future

- NMU's [Road Map to 2015](#)
- Olson Library Strategic Direction
- Add basic ELIS Library Blocks to ALL EduCat courses
- Increase number of participating departments
- All AIS faculty embedded
- Develop more-efficient methods of collecting embedded data

# Questions?

Michael Strahan - [mstrahan@nmu.edu](mailto:mstrahan@nmu.edu)

(906) 227-2463

SaraJane Tompkins - [stompkin@nmu.edu](mailto:stompkin@nmu.edu)

(906) 227-2431

Northern Michigan University, Marquette, MI

Thank you!