



School of Education

Educators Serving Together

**“For the body is not one member, but many.”
(I Corinthians 12:14)**

**GRADUATE SUMMER WORKSHOP
COURSE SYLLABUS**

**EDUC 575 OL (#) Workshop: Technology and Science for Teachers
(3) Semester Hours Graduate Credit
Summer Semester 2011**

Workshop Instructor: Thomas Love

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Center for Professional Development Office – Regula Hall, Room 301 **MU Email:** tlove@malone.edu

Course Description: This workshop is an investigation of Elementary Science with a blend of traditional and authentic viewpoints. An emphasis will be on the integration of Science topics into K-8 classes. A mix of traditional and authentic activities will stress integration since it requires reading of a textbook, investigating provided lecture along with using Internet & WWW. Natural Science topics to be examined are: Biology, Geology, Chemistry, Physics and Cosmos. Topics in Technology will permeate the workshop. A blend of traditional and authentic assessment will be implemented since lecture, reading and investigations will be required and evaluated for knowledge, skills, and attitude acquired.

Course Learning Objectives:

Upon successful completion of Technology and Science for Teachers workshop participant will:

1. Using Email, provide introduction along with class roster become as part of online community. (11,12)
2. Investigating various religious web sites to gain a sense WWW Faith & Learning environment. (1)
3. Develop knowledge of the Natural Sciences for use in a K-8 environment. (9,12)
4. Become aware of the various aspects and characteristics of an online (course) workshop. (2,4)
5. Acquire techniques for online collaboration with colleagues using Email & Online settings. (10)
6. Develop an understanding of the techniques and strategies used with online learning. (2)
7. Acquire a respect for the use of the Internet & WWW by Students, Teachers, and Parents. (5)
8. Value the organization and implementation of online (courses) workshops. (6,9)
9. Collaborate with other teachers using Email, Distribution List and online chat room. (9,10)
10. Interacting by way of various assessments to gain an awareness of authentic evaluation. (7)

Participants are required to review and comply with at all times the [Academic Integrity Policy](#) located in the Malone University Student Handbook, which is published and distributed by Malone University.

<http://www3.malone.edu/student-life/student-development/student-handbook>

* (CP = Candidate Proficiencies identified by Malone University School of Education. See below)

Malone University Teacher Education Candidate Proficiencies

We prepare candidates who:

1. Demonstrate ways in which a Christian worldview informs educational practice.
2. Apply sound principles of teaching, learning, and advocacy.
3. Master the content for which they have educational responsibility.
4. Demonstrate competence in the process of planning developmentally appropriate practices.
5. Exhibit effective techniques which promote learning for all students regardless of race, culture, gender, creed, or ability.
6. Identify organizational and behavioral management strategies that create an educational environment conducive to effective learning and growth.
7. Evaluate and support student learning and growth by utilizing varied assessments to inform instruction and interventions.
8. Display professionalism and ownership of professional growth.
9. Use technology as a tool for instruction, communication, collaboration, and creativity.
10. Collaborate with family, teachers, community, and other stakeholders in student learning and growth.
11. Initiate and sustain conversation in an organized, clear, and confident manner, using standard English, in written and oral form.
12. Exhibit dispositions for educators committed to serving together by:
 - a. Providing service
 - b. Practicing fairness
 - c. Promoting stewardship
 - d. Believing all students can learn and grow

Academic Integrity Policy

Graduate students are expected to be honest in their academic work. Plagiarism, collusion, cheating, giving or receiving or offering or soliciting information during examinations, or the use of previously prepared material during examinations or quizzes are violations of academic integrity. Students are obligated to abide by the Malone University Academic Integrity Policy and its procedures as described in the Malone University Catalog. Students are required to understand their responsibilities under this policy and to demonstrate integrity in all areas of their academic study. Failure to do so will result in serious consequence.

Suggested texts and/or references:

The resources in this workshop will be The Science Explorer O&A, Everyday Discoveries or an appropriate elementary science textbook, Online lectures, Internet and WWW resources.

Suggested teaching strategies:

This class will be a combination of lecture using Camtasia PowerPoint, traditional textbook readings, technology investigations, Internet and WWW investigations and final project.

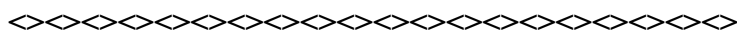
Evaluation and grading:

A course grade will be determined by participation and timely completion of online assignments. All Email & Drop Box assignments via MS Word documents will be evaluated and returned to teachers. Assessment Distribution: 100% = A 95% - 85% = B 85% - 75% = C Less than 75% is unacceptable! All assignments are due at End Date of the workshop! Extensions can be granted for valid reason!

@ Malone University * School of Education * Center for Professional Development @

@ Online Technology and Science for K-8 Classroom Teachers * 2009 / 2010 @

(1) Introduction to Instructor is due end of First Week. Sunday Midnight!
Introduction to Course Instructor directions are posted at eCollege - Course Home!
(Required Title for each assignment: Brief Description – First & Last Name)



(2) Faith & Learning assignment is due end of First Week. Sunday Midnight!
Faith & Learning assignment directions are posted at eCollege - Course Home!
(Required Title for each assignment: Brief Description – First & Last Name)



(3) Optional: Create a Profile (Register) for investigation and completion of Chat Room Tutorial!

This Chat Room activity is only done once at the beginning of the workshop!

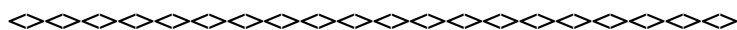
A few comments for the Workshop Instructor which include Colors & Smileys!

Message to Instructor at CR must include comments on First Week Workshop activities!

This Chat Room experience might be a beneficial activity for your students later or next year!

At CR opening page, Click on Register and create a Profile to use the Chat Room.

<http://itws.org/CR/phpMyChat.php3>



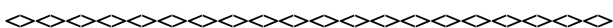
Required textbook can be acquired from MU Bookstore: 330-471-8310 or bookstore@malone.edu

Required textbook can be acquired from Amazon.com: Copy & Paste (ISBN) below into Amazon.com

RequiredText: Exploratopica purchase at Amazon.com or Half.com (Buy Used!)

(or) Suggest an equivalent text for reading assignments!

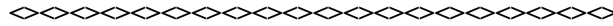
Textbook should be in used condition for \$5 and up plus S&H charges.



Three (3) Semester Hours of Graduate Credit requirements:

It is anticipated, assignments should take about (30) hours of involvement.

Start with First of provided unit/weekly topics and complete each numbered assignment:



(1) **Select Discipline Lecture** and submit via **Drop Box attachment** for Discipline Lecture, one MS Word with (1) paragraph for **each of (2)** summarized topics within lecture. Paragraphs include title of topic **and** at least 6-8 sentences on selected topic. Using the **Study Guide PP** is suggested (optional) to take notes while investigating lecture. Submitted topics from **lecture** should be **different** than topics from **reading!**
(Required Title for each assignment: **Brief Description – Chapter # * First & Last Name**)

(2) **Read related materials** & submit via **Drop Box attachment** for Discipline Reading, one MS Word with (1) paragraph for **each of (2)** summarized topics within reading. Paragraphs include title of topic **and** at least 6-8 sentences on selected topic. Using **Study Guide PP** is suggested (optional) to take notes while reading chapter. Submitted topics from **reading** should be **different** than topics from **lecture!**
(Required Title for each assignment: **Brief Description – Chapter # * First & Last Name**)

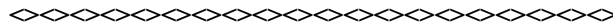
(3) **Explore WWW Investigations** and submit via **Drop Box attachment** for Investigations. It is expected, all the web sites will be previewed **and select (2) Good Sites** for submission. Submit a MS Word with (1) paragraph for **each of (2)** summarized sites in **Chapter** links. Paragraphs include title of topic **and** at least 6-8 sentences on selected web sites (URL).
(Required Title for each assignment: **Brief Description – Chapter # * First & Last Name**)

(4) **Investigate Discipline (Related) Sites** and submit via **Drop Box attachment** for Investigations. It is expected, all the provided links will be previewed **and select (2) Good Sites** for submission. Submit a MS Word with (1) paragraph for **each of (2)** summarized sites in **Discipline Sites**. Paragraphs include title of topic **and** at least 6-8 sentences on selected web sites (URL).
(Required Title for each assignment: **Brief Description – Chapter # * First & Last Name**)

(5) **Complete (1) Project Based Lesson (PBL) at end of workshop** on any topic in technology.

Read the provided information on PBL Lessons and survey the components parts.

@ Finally preview the sample PBL Lesson provided to ease you into your creation! @



@@@ Review provided **sample assignments** to complete with **required assignments!** Ask Questions too! @@@