Music Technology Applications in Music Education
MUED 522 01 Music Pedagogy V - 9-12

Instructor: Thomas Rudolph, Ed. D.

Semester: Spring

Class Schedule:
Dates: Mondays: January 31 through March 7, 2005
Time: 500 – 9:00 p.m.

Location: Merriam, room 707

Required Textbooks:

1. *Teaching Music With Technology*, 2nd edition; Author: Thomas Rudolph; ISBN: 1-57999-313-3; Publisher: GIA Publications, www.giamusic.com

2. *Strategies for Teaching: Technology*; Author: Edited by Carolynn A. Lindeman; Publisher: MENC www.menc.org; ISBN: 1-56545-140-6

Optional Textbooks:

1. *Technology Strategies for Music Education*. Rudolph, et al. Technology Institute for Music Educators. ISBN: 0-634-04592-X; distributed by Hal Leonard Publishing.

2. *Experiencing Music Technology: Software, Data, and Hardware,* Second Edition by David Brian Williams, Peter Richard Webster; Wadsworth Publishing; 2 edition (June 1999); ISBN: 0028653246

Overview:
The course provides experience with the four major types of uses of technology by music teachers and students: Administrative/Communication, Preparing Teaching Materials, Leading Class Activities and Student Uses of Technology. The course is based on the belief that technology can:

1. Provide tools and resources for helping students become active agents in the growth of their music knowledge, attitudes, and skills
2. Make a contribution to helping students make progress toward achieving the National Standards in Music: singing, playing, improvising, composing, reading and notating, listening, evaluating, understanding relationships with the arts and other disciplines, and understanding history and culture.
3. Help teachers prepare more effective music learning materials, and
4. Contribute to the development of new models of music learning.

Course Outcomes:
At the conclusion of this course you should be able to:

1. Develop strategies for integrating technology into the teaching and learning in school music programs relating these strategies to the national standards.
2. Use music notation software to prepare printed music needed in typical school music programs and design activities for student use of notation software,
3. Use music production and creativity software to engage students in the composing process,
4. Locate and use World Wide Web sites for music teaching and learning,
5. Use and adapt instructional software for use in school music programs.
6. Choose appropriate software applications for composition, printing and arranging.
7. Develop a written funding proposal for the purchase and use of technology in music education

Instructional Methods:
The class will be conducted in a lecture-demonstration-laboratory format. Students will be given opportunities to experience technology and to demonstrate applications and strategies in a lab setting. One or more visits will be planned to observe students participating in a music technology lab.

Attendance and Participation:
Participation in class discussion and demonstrations is a vital part of this class. Regular attendance is assumed. Assignments are due at the beginning of class on the dates indicated. Late assignments are lowered one full grade for each day late.

Special Projects:
Project 1: Project 5.2. from TMWT Chapter 5: write an arrangement for electronic instruments of Amazing Grace using Finale or Sibelius Software. Print parts and a score.
Due date: February 14, 2005

Project 2: Project 6.3 from TMWT Chapter 6: Search the Web for lessons on music education and technology. Select one lesson plan and revise it to fit a specific application or need.
Due date: February 14, 2005

Project 3: Project 7.3 from TMWT, Chapter 7: Create a lesson and notation file for students.
Due date: February 21, 2005.

Project 4: Project 8.5 from TMWT, Chapter 8: Design a MIDI sequencing composition lesson for students. Create a finished example of a composition for student reference.
Due date: February 28, 2005.

Project 5: Project 17.1 from TMWT, Chapter 17: Develop a proposal for music technology for your school or institution. Modify the proposal on the companion CD-ROM for your purposes.

Due date: March 7, 2005.

Course Grading/Evaluation:
Grades will be based on:

40% on attendance/participation in class
60% on projects

Date	Class Discussion/Hands-on	Assignments/Readings
Week 1 Jan. 31	Overview TMWT Chapter 1 Internet: TMWT, Chapter 2 Computer Terms: TMWT Chpt 3 Electronic Instr. - TMWT Chpt. 4	Read TMWT Chpts 1, 2, 3, 4, 5, 6 & 10
Week 2 Feb. 7	Controllers - TMWT Chpt 5 Instructional Software - Chpt 6 Creative/Accompaniment - Chpt 10	Read TMWT Chpts 7, 8 Begin Project 1 Begin Project 2
Week 3 Feb. 14	Notation Software; TMWT Chpt. 7 Posting files on web sites MIDI Sequencing; TMWT Chpt. 8	Read TMWT Chpt 9 Projects 1 & 2 due Begin Project 3
Week 4 Feb. 21	Converting MIDI files to Audio Creating practice CDs for students Digital Audio - Chpt 9	Read TMWT Chpts 11, 14, 17 Project 3 due Begin Project 4
Week 5 Feb. 28	Multimedia & PowerPoint; Chpt 11 Web applications Productivity Software; Chpt. 14 Proposal Writing; Chpt. 17	Read TMWT 12, 13, 15, 16 Project 4 due Begin Project 5
Week 6 Mar. 7	MIDI Labs – Chpt. 12 Setting up a studio – Chpt. 13 Copyright – Chpt. 16 Implementing Technology; Chpt. 15	Project 5 due