



DEPARTMENT OF FINE ARTS

COURSE OUTLINE – DD1081 Music Technology I

INSTRUCTOR: Chris McIntyre **PHONE:** 780-539-2904
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OFFICE HOURS: Varies due to studio schedule

PREREQUISITE(S)/COREQUISITE: Music Theory Placement Exam (pass), or [MU1000](#), or Grade Two Conservatory Music Theory, or equivalent

REQUIRED TEXT/RESOURCE MATERIALS:

Text: Modern Recording Techniques 7th edition. Miles David Huber

Students will need stereo headphones with 1/4 inch phono plug adapters. Students will not be able nor will they be allowed to work in the computer lab without headphones.

It is recommended that students purchase their own external hard drives for saving projects. Multi-track audio projects can use large amounts of hard drive space, and students then need not worry about projects being accidentally erased. (100GB or larger would be ideal)

CALENDAR DESCRIPTION: This course will introduce the elements, technical systems, and architecture of music in the recording arts with emphasis on practical experience with MIDI and digital audio recording. Students will gain practical experience with microphones, mixing boards, signal processors, and digital audio workstation (DAW) software such as Pro Tools and Digital Performer. Students will explore the use of real time audio tracks in conjunction with MIDI and virtual instruments tracks and loops.

CREDIT/CONTACT HOURS: 45

DELIVERY MODE(S): Lecture and Lab

OBJECTIVES: This course will introduce students to the concepts of sound and hearing and cover elements of sound reproduction, hard disc recording using microphones, mixing consoles, DSP, and DAW software including Garage Band, Pro Tools and Digital Performer on the Mac platform. MIDI sequencing with virtual instruments along side digital audio will be covered. As well, the creation/manipulation of audio loops used in conjunction with MIDI and audio tracks will be explored.

TRANSFERABILITY:

**** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability.**

GRADING CRITERIA:

The student's will complete four assigned projects and a final exam. The projects are listed below:

- a) A sequencing project demonstrating the ability to record and save a MIDI sequence. (10%)
- b) A multi-track sequence using virtual instruments mixed and bounced down into an audio file. This project will be graded for technical proficiency and aesthetic appeal. (20%)
- c) A project requiring MIDI tracks and audio loops bounced down to and audio file. (20%)
- d) A project requiring MIDI sequencing and digital recording of real-time audio with the option of additional audio loops. This must be mixed, bounced down and exported as an audio file. (30%)
- e) Final written exam based on topics and practical concepts covered in class. (20%)

EXAMINATIONS: Final Exam (20%)

STUDENT RESPONSIBILITIES: Some class time will be given for course work (projects) but it is up to the student to complete projects in the lab outside of class time. More than 20% absenteeism may constitute a failure except for medical or extenuating circumstances in which case a doctor's letter may be required.

STATEMENT ON PLAGIARISM AND CHEATING:

Please refer to pages 49-50 of the College calendar regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

COURSE SCHEDULE/TENTATIVE TIMELINE: Project Due dates

Project A: September 26

Project B: October 17

Project C: November 14

Project D: December 5