MUS306_2014
RECORDING TECHNIQUES

Kirk McNally
Office: MacLaurin B004
Phone: 250-472-5628
E-mail: kmcnally@uvic.ca
Office Hours: by appointment

Goals and objectives:
This course is designed to provide students with a technical understanding of the recording
process, from the creation of sound all the way to the final recorded medium. An
appreciation for the art of recording and the development of critical listening techniques
will be fostered through in-class recording sessions and class listening. Individual and
group recording, editing and mixing assignments allow students to practice these skills
further.

Course Materials:

Course Policies:
1) Students are expected to attend all classes regularly and punctually.
2) Absences for serious health reasons only, or in extreme and unavoidable
circumstances, and with appropriate documentation.
3) Cheating and plagiarism are offences subject to serious penalty, and will not be
tolerated. Please see the University of Victoria Policy on Academic Integrity for
detailed guidelines on these issues:
   http://web.uvic.ca/calendar2014/FACS/UnIn/UARe/PoAcl.html
4) Final assessment of student performance and percentage-to-grade point
conversion can be found here:
5) http://web.uvic.ca/calendar2014-09/FACS/UnIn/UARe/Grad.html
6) Students with special needs should contact your teacher as soon as possible to
discuss accommodations.

Grading and evaluation:

<table>
<thead>
<tr>
<th>Labs/Assignments (3 recordings, one editing project)</th>
<th>40%</th>
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<tbody>
<tr>
<td>Mid-Terms (two)</td>
<td>40%</td>
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<tr>
<td>Major recording project</td>
<td>20%</td>
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Lecture Schedule:

Week 1  
- **Friday, September 5**  
  - Introductions, in-class listening

Week 2  
- **Tuesday, September 9**  
  - Physics of Sound  
  - Reading: Chapter 1, pp.1-15  
  - Assignment #1 (due January 15th)

- **Friday, September 12**  
  - Sound and Hearing (ITD, IID, HRTF)  
  - Reading: Chapter 2, pp. 29-41

Week 3  
- **Tuesday, September 16**  
  - Assignment #1 due, class listening  
  - Decibels, sound power and sound pressure, levels and metering  
  - Reading: Chapter 1, pp. 16-23 including Fact fie 1.2 & 1.3

- **Friday, September 19**  
  - Critical distance, RT60  
  - Assignment #2, Mono Recording (due February 1st)

Week 4  
- **Tuesday, September 23**  
  - Microphone theory, type & construction  
  - Reading: Chapter 3, pp. 47-68

- **Friday, September 26**  
  - Mics con’t, multi-pattern, polar patterns

Week 5  
- **Tuesday, September 30**  
  - Fundamentals of Stereophonic Recording  
  - Reading: Chapter 16, pp. 471-507

- **Friday, October 3**  
  - Assignment #2 due, class listening  
  - Stereo Techniques (XY, AB, combination)

Week 6  
- **Tuesday, October 7**  
  - Stereo Techniques (MS), Exam Review  
  - Assignment #3, Stereo Recording (due March 1st)

- **Friday, October 10**  
  - Exam #1

Week 7  
- **Tuesday, October 14**  
  - Exams back, Console Theory  
  - Reading: Chapter 5, pp.107-137

- **Friday, October 17**  
  - Bussing, Aux Sends, Inserts
Week 8  - **Tuesday, October 21**  
- Audio processing, (EQ, Dynamics, FX)  
- Chapter 13, pp. 381-395  
- **Friday, October 24**  
- Assignment #3 due, class listening  
- Balanced audio, interconnects, connectors, DI’s and patch-bays  
- Reading: Chapter 12, pp. 353-365, 370-379  

Week 9  - **Tuesday, October 28**  
- Digital audio, binary, sampling, quantization, dither  
- Reading: Chapter 8, pp. 201-229  
- **Friday, October 31**  
- Digital audio con’t  

Week 10 - **Tuesday, November 4**  
- Exam #2  
- **Friday, November 7**  
- Intro to Reaper  
- Assignment #4, Reaper editing (due April 3rd)  

Week 11 - **Friday, November 14**  
- Reaper editing  

Week 12 - **Tuesday, November 18**  
- Reaper editing con’t  
- **Friday, November 21**  
- Reaper mixing  

Week 13 - **Tuesday, November 25**  
- Reaper mixing con’t  
- **Friday, November 2**  
- Mastering basics  

Week 14 - **Tuesday, December 2**  
- Assignment #4 due, class viewing/listening