



University of North Dakota
UND Scholarly Commons

Open Educational Resources

9-2019

MUSC 340 Weekly Schedule

Eric B. Miller

University of North Dakota, eric.b.miller@und.edu

Follow this and additional works at: <https://commons.und.edu/oers>

 Part of the [Music Commons](#)

Recommended Citation

Miller, Eric B., "MUSC 340 Weekly Schedule" (2019). *Open Educational Resources*. 12.

<https://commons.und.edu/oers/12>

This Syllabus is brought to you for free and open access by UND Scholarly Commons. It has been accepted for inclusion in Open Educational Resources by an authorized administrator of UND Scholarly Commons. For more information, please contact zeineb.yousif@library.und.edu.



MUSC 340

**INTRODUCTION TO
MUSIC TECHNOLOGY
SCHEDULE**

ERIC MILLER, PH.D.



Week 1: Intro to class, Synthesizers: online, local, mobile. Synth solos & duets

Dates: Wednesday, August 28, 2019; Friday, August 30, 2019

Assignment: Explore a variety of synthesizers, identify "favorite" patches, present to class. Weekly class response post in BB Discussion Board.

OER Links

<https://synth.playtronica.com/>

<http://microto.github.io/viktor/>

<http://aikelab.net/websynthv2/>

<https://midi.city/> - Free Mobile App for Android: EasySynth by BJ Owings



Week 2: Physics of Sound: Waveforms

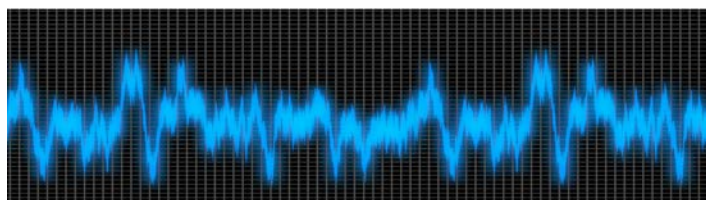
Dates: Wednesday, September 4, 2019

Assignment: Physics of Sound readings - Weekly class response post in BB Discussion Board. Project 1 - Synth Due: Create a patch

OER Links

<http://kellerphysics.com/acoustics/Lapp.pdf> - - The Physics of Music and Musical Instruments---- written by David Lapp published by the Wright Center for Science Education Tufts University This free pdf is a complete textbook that integrates the topics of waves, sound, music, and musical instruments.

<http://physics.bu.edu/~duffy/py105/Music.html>



Week 3: More Physics of Sound: frequency, amplitude, envelope, Overtones/Harmonics

Dates: Monday, September 9, 2019; Wednesday, September 11, 2019

Assignment: Quiz 1. Weekly class response post in BB Discussion Board.

OER Links

<https://prairiepublic.pbslearningmedia.org/resource/physics-music-braincraft/physics-music-braincraft/>



Week 4: Digital Audio Workstations -DAWs

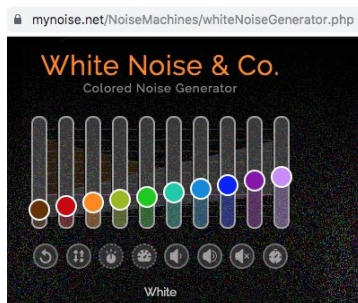
Dates: Monday, September 16, 2019; Wednesday, September 18, 2019

Assignment: Audacity Testing - Weekly class response post in BB Discussion Board.

OER Links

<https://www.audacityteam.org/>

<https://manual.audacityteam.org/>



Week 5: Studio Recording - Live Sound, Mixers, Multi-track

Dates: Monday, September 23, 2019; Wednesday, September 25, 2019

Assignment: Project 2 - Audacity Due Weekly class response post in BB Discussion Board.

OER Links

<https://www.avid.com/static/resources/us/documents/ProToolsReferenceGuide.pdf>

https://en.wikipedia.org/wiki/Audio_mixing

<https://www.avid.com/pro-tools-first>

Week 6: Binaural Beats, pink noise masking and bed tracks

Dates: Monday, September 30, 2019; Wednesday, October 2, 2019

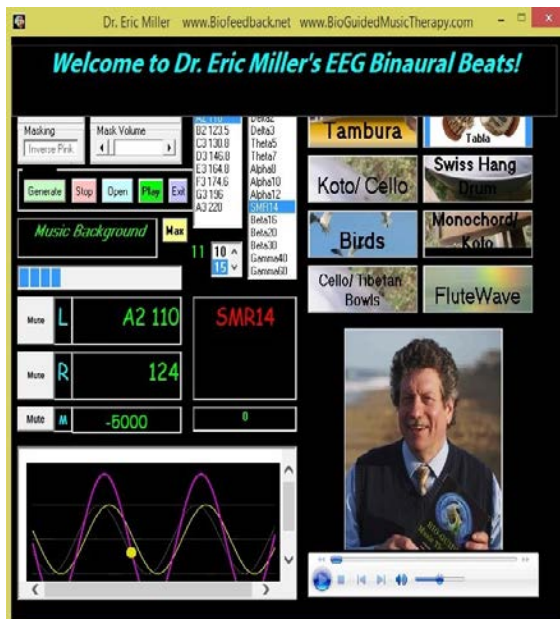
Assignment: In class projects - Weekly class response post in BB Discussion Board. Project 3 - Binaural Beats Due: Create a preset

OER Links

<https://www.psychologytoday.com/us/blog/sleep-newzzz/201810/how-can-binaural-beats-help-you-sleep-better>

<https://mynoise.net/NoiseMachines/whiteNoiseGenerator.php>

<http://samplerator.com/>



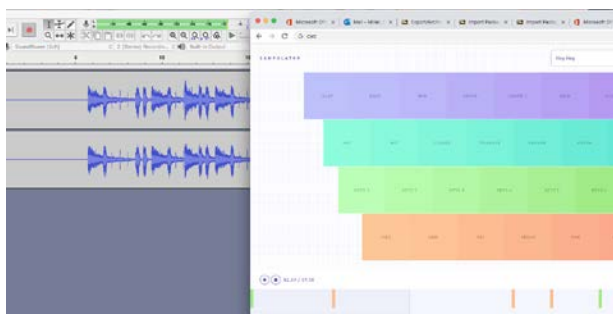
Week 7: Loops - Shift + Spacebar in Audacity, Amps & mics

Dates: Monday, October 7, 2019; Wednesday, October 9, 2019

Assignment: Create Loops. Weekly class response post in BB Discussion Board. Quiz 2.

OER Links

<https://mainline.i3s.unice.fr/AmpSim3/>



Week 8: Audio Exporting, Digital audio formats

Dates: Monday, October 14, 2019; Wednesday, October 16, 2019

Assignment: Weekly class response post in BB Discussion Board. Project 4 - Loop Export Due

OER Links

https://en.wikipedia.org/wiki/Audio_file_format



Week 9: Musical Notation Software

Dates: Monday, October 21, 2019; Wednesday, October 23, 2019

Assignment: Weekly class response post in BB Discussion Board. Project 5 - Musical Notation Due

OER Links

<https://musescore.org/en> - MuseScore Open Source "completely free" software

Week 10: Music & the Brain

Dates: Monday, October 28, 2019; Wednesday, October 30, 2019

Assignment: Weekly class response post in BB Discussion Board. Project 6 - Music and the Brain Due.

OER Links

<https://commons.und.edu/oers/13>

<https://www.youtube.com/watch?v=Pe-lllmt2Dw>

<https://bioguidedmusictherapy.com/native-flute-biofeedback/>



Week 11: Music & Film

Dates: Monday, November 4, 2019; Wednesday, November 6, 2019

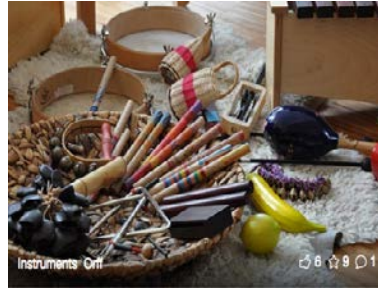
Assignment: Weekly class response post in BB Discussion Board.

OER Links

<https://www.eapl.org/sites/default/files/how-do-i/iMovieQuickStart.pdf>

<https://www.researchgate.net/publication/318447965> The Use of Music for Neuromodulation

<https://www.openshot.org/>



Week 12: Music Educational Technology

Dates: Veterans Day (no class); Wednesday, November 13, 2019

Assignment: Weekly class response post in BB Discussion Board.

OER Links

<http://solfeg.io/music-education-technology/>

Week 13: Advanced Audio Editing, Linear vs. Non-linear Production

Dates: Monday, November 18, 2019; Wednesday, November 20, 2019

Assignment: Quiz 3. Weekly class response post in BB Discussion Board. Begin planning final project.

OER Links

<https://drumbit.app/>



Week 14: Rhythm Machines

Dates: Monday, November 25, 2019; Wednesday, November 27, 2019

Assignment: Weekly class response post in BB Discussion Board. Begin work on final project

OER Links

<https://drumbit.app/>

Week 15: Technique Integration, Project Work

Dates: Monday, December 2, 2019; Wednesday, December 4, 2019

Assignment: Weekly class response post in BB Discussion Board. Continue work on final project.



Week 16: Project Work

Dates: Monday, December 9, 2019; Wednesday, December 11, 2019

Assignment: Weekly class response post in BB Discussion Board. Final Project - Music & Film work. Class Project on Music and the Brain Due

Week 17: Final Exam (1 PM)

Dates: Monday, December 16, 2019

Assignment: Final Project - Music & Film Due