



## MTD PREP TECHNOLOGY ONLINE Fall 2020

Instructor: Hazel Fairbairn: [fairbairnh@douglascollege.ca](mailto:fairbairnh@douglascollege.ca) | CRN 31379

Dates: Thursday, **December 3**, Monday, **December 7**, Thursday, **December 10**, Monday, **December 14**,  
Thursday, **December 17**

Time: 4:00 – 7:00pm

### Course Competencies

- Be familiar with the principles of acoustic, analog and digital systems and signal chains.
- Be familiar with basic principles of sound (amplitude, frequency, harmonic content, wavelength, phase).
- Be familiar with the principles of EQ, Compression, and a range of time-frequency domain processors.
- Be able to use Pro Tools to mix a project using series and parallel processing.
- Understand MIDI signal flow and use Pro Tools to remix a standard MIDI file.

	Guide to Topics
Week 1	Douglas College Log Ins/ Blackboard Orientation What is a DAW? Avid Pro Tools: Working with Pro Tools First v Pro Tools 12 <i>Project One: Downloading and Installing Pro Tools</i> <b>Slide Show An introduction to the fundamentals of audio and a brief history of analog recording technology.</b>
Week 2	Pro Tools Introduction: The Arrange and Mix Windows, File Structure, Editing Tools. <i>Project Two: Creating a new project, importing stems (provided) &amp; using some basic mixing and editing tools.</i> Setting up a mix; gain structure and the Master Fader. <b>Slide Show Digital Technologies &amp; DAWs</b>
Week 3	Equalization (theory and practical listening exercises) Pro Tools: Using Plug Ins (series processing) <i>Project Three: Equalization Exercise</i> <b>Slide Show Equalization</b>
Week 4	Time Frequency Domain Effects: Reverbs, Chorus, Delays, Phase Pro Tools: Setting up parallel processing. <i>Project Four: Work on mix, add bus sends/aux return</i> <b>Slide Show Time-Frequency Domain</b>
Week 5	Working with MIDI <i>Project Five Midi Remix</i> <b>Slide Show MIDI protocol and signal Flow</b>

This course will be delivered synchronously with a 45-minute demo at 4pm each week, followed by 75 minutes of supervised on line lab time. There is also a slide show which you will watch asynchronously, and which should take you about one hour each week.

You will find slides, materials, links and worksheets posted for each week in Blackboard.