Duration:	**6 weeks (double classes)**
Course:	**Signal Processing**
Instructor:	**Willard Bond**

Course Objective: To familiarize students with typical signal processors found in professional studios, including EQ, dynamic processors time-based and "special effects". Emphasis is on function and typical application, as well as interfacing, interpretation of specifications, and parameter management. Evaluation is based on a mid-term test, final exam, class attendance and participation, as well as a major mix assignment

Bio: Willard began his audio career while still in high school with an 8-track studio in the family basement. After crushing the course at The Recording Workshop in Chillicothe, Ohio (they offered him a job teaching there) Bond starting working at Elora Sound, a popular "environmental studio" at the time. When the studio was moved to Toronto and repurposed as a post-production facility, he was brought along by the owner and spent five years working on movies, TV shows, commercials and corporate video projects. For the last 20 or so years he has been with The Strategic Coach running their in-house studio, while self-producing five full-length records and dozens of accompanying music videos. Willard has also been teaching self-defence for over 20 years and lives with his rocking cat, Moneypenny.

Week	Topic
1	Foundation: loudness human sound perception, dB and power, terminology
2	Dynamics: compressors, limiters, de-essers; serial vs. parallel, sidechains
3	Tone controls: Equalizers, filters, harmonic enhancers, swept filters
4	**MID-TERM EXAM** Time-based effects: delays, modulators, pitch-shifting;
5	Reverberation: traditional, digital, convolution
6	**FINAL EXAM** Dynamics: expanders & gates, noise reduction;

Evaluation

Attendance & Participation	15%
Assignment	40%
Mid Term Exam	20%
Final Exam	25%
Total	100%