Duration:	**12 weeks**
Course:	**Studio Orientation Class**
Instructor:	**Tom Heron**

Course Objective: This course is structured to compliment the weekly labs in STO-2. As the face of the recording studio is changing rapidly, we will discuss the many possible approaches and designs that can be the studio of today. Theory will be covered in regards to studio signal flow, consoles, patch bays, studio staffing, recording formats and studio procedure.

Week	Topic
1	Connectors and cables: Identifying the different types of connectors and their application Cable types and quality
2	Balanced and unbalanced lines Decibels: dB SPL, dBu, dBV and relative dB dB and VU metres
3	Levels: Standard operating levels: +4 dBu, -10 dBV and their relationship Mic, Instrument, Line, Power: Understanding types of signals, relative levels and impedances.
4	Harmonics: The components of a sound
5	Phase: Polarity inversion, phase shift and its significance in audio
6	**Mid Term Exam**
7	Digital Audio: Understanding the sampling process, sample rates, bit depth and file types. Digital 0, dB Fs and relationship to dBu
8	Digital Audio: Dither and Jitter Importance of clocking
9	Audio Consoles: Design, evolution and console types Typical sections of audio consoles
10	Signal Flow: Inputs, outputs, buses, inserts and sends
11	Patch bays Review for final
12	**Final Exam**

Evaluation

Mid Term Exam	25%
Final Exam	25%
Attendance and Participation	50%
Total	100%