

Recording and Mix Theory Syllabus

(5 weeks)

Week 1

Signal Processing

- EQ
 - Types
 - Graphic
 - Variable
 - Peak
 - Shelf
 - Parameters
 - Frequency
 - Q width
- Compression
 - Types
 - Compressor
 - Limiter
 - Multi band compressor
 - De-esser
 - Gate
 - Parameters
 - Threshold
 - Ratio
 - Attack/release
 - Hold
 - Multiband
- Reverb
 - Types
 - Plate
 - Spring
 - Room
 - Hall
 - Nonlinear
 - Gate
 - Parameters
 - Predelay
 - Reverb time
 - Diffusion
 - High/low cut
- Delay
 - Delay time
 - Feedback
 - High/low cut

- Other FX
 - Chorus
 - Flanger/phaser
 - Distortion

Week 2

Review material from the previous week.

The recording process

1. Pre production
2. Tracking
3. Overdubs
4. Editing
5. Mixing
6. Mastering

Mix Theory (part 1)

- Monitoring
 - Types
 - Headphones
 - Speakers
 - Subwoofers
 - Placement
- Speaker format
 - Stereo
 - Mono
 - Surround sound
- Balancing instruments and creating space
 - Panning
 - EQ
 - Reverb/delay

Experiment with a simple song arrangement.

Week 3

Review material from the previous week.

Mixing Theory (part 2)

- Using other signal processing
 - Compression
 - Chorus
 - Pitch correction
- Automation

- Checking a mix

Experiment with a complex song arrangement.

Week 4

Review material from the previous week.

What is mastering?

Preparing a mix for mastering

Mastering a song vs mastering a collections of songs (album)

Week 5

On location assistance at a the Blast House recording studio.

- Setup mics, cables, stands, and equipment
- Run the mixing console
- Tear down