



Module IV: Weeks 7–9, June 25–July 15

Build Content

Assessments

Tools



Start Here

Goals

- Create 50 questions on the remaining sections of the Sweetwater ProGear guide
- Peruse entries in the Sweetwater Glossary for words starting with the last half of the alphabet
- Make a video and see how you come across describing the features of a product. One option could be to talk about two of the new items Jeff Seitz is installing over the summer in Studio 1a;

Slate Raven MTi2 Dual screen
<http://slatemt.com/raven-mti2/>

Heritage RAM 5000
<https://www.sweetwater.com/store/detail/RAMsys5000--heritage-audio-ram-system-5000-5.1-monitoring-system>

Study

- Study the sections in the ProGear guide on Microphones & Studio, Computer Recording, and DJ, Live Sound and Accessories. Look at the recommended study terms below as a starting point for your research. These can be used for ideas for your 50 questions and flash cards. Knowing what they refer to will help you read the descriptions in the ProGear guide.

Assignment - due by midnight on Monday, July 16th

- Create 50 questions on microphones & studio, computer recording, DJ, live sound, and accessories.
 - Fill out [this form](#) 50 or more times with information that you think could be used on an exam over those last sections of the ProGear guide. You can [study and edit the results here](#).
 - Fill out [the same form](#) 5 or more times with information from your flash cards about Glossary entries starting with the letters "N" through "Z".
 - Talk to people who use the products in the last sections of the ProGear guide. Ask them what equipment they like to use, why they picked it, what they would like to upgrade to someday or add. Find websites and magazines that deal with that equipment. Compare what you find in your research with what is in the ProGear guide.
- Make flash cards on words starting with the letters N-Z in the Sweetwater Glossary
- Make a video in the style of the [Sweetwater Minutes](#) describing the features of a product. Post it on YouTube or on Box and supply the link to it in the space below. If you decide to use YouTube you can get the link by clicking on "Share" after you have uploaded it. The video there can be unlisted if you don't want it to be public.



[Link to your video](#)

Post the link to your YouTube or Box video about a music product in the last sections of the ProGear guide. Make it in the style of the Sweetwater Minute.



Study Terms

Microphones

FET
U87, SM57
Polar pickup pattern diagrams
Omnidirectional and cardioid pickup patterns
Off-axis rejection
Capsule
Large or small diaphragm
Reference microphone
-10dB, -15dB, or -20dB attenuation pad
Bass rollout or highpass filter
Shockmount
XLR cable
Pop filter
Noise floor
Transients
SPL
Condenser, dynamic, and ribbon microphone construction
Stereo pair
RF wireless
Handheld, lavalier, headset

I know Chandler Bridges and can give you his contact information if you would like to contact Chandler Limited microphone and channel strip company to see how he has positioned his small company in a crowded market.

In what ways can a microphone be "versatile"?

Stands

Counterweight
Boom
Clutch
Cast iron and tripod bases

Vocal Processing

De-essing
Wet/dry blend knob
Harmonizer

Pre-amplifier and compressor

500 series rack
Compression ratio, brickwork
Soft knee
Threshold
Saturation
Expansion
Class A
Phantom power
Focusrite
Limiting
Stereo and dual-mono modes
Output stage
LA-2A
Channel strip
Multiband

Mastering

Summing

Monitors

Monitor controller
Accuracy
Full-range
Dome tweeter
Distortion
Sealed cabinet
Near-field
Speaker isolation stands/pads

Headphones

Open-Back
Transducers
Imaging
Isolation
Leakage

Portastudio

XLR/TRS jacks
Field recorder
Video switcher

Audio interfaces

DAC, A/D, D/A conversion
AES/EBU
ADAT optical
S/PDIF
MADI
Thunderbolt
Firewire
Clocking
USB interface
MIDI
(Zero) latency

Recording software - what are some unique features of each?

DAW
Digital Performer 9
Studio One 4
Ableton Live 10
Cubase 9.5
Unending 8
Propellerhead Reason 20
FL Studio 12
Mixcraft 8
Pro Tools
Sibelius

Plugins

Native
HD
VST
RTAS
AU
Expansion pack

DJ

Serato
Platter
Scratching

PA

Line array
Combo input
Wedge
Bi-amplification
Full-range
Driver
Ground loop
Hum
Onboard DSP
Feedback
Daisy chain
Ethernet, Cat 5e cables
AVB, MAD1, Dante
SD card
USB 2.0, 3.0
In-ear monitors, noise cancellation
Personal mixer
Direct box (passive and active)
Ground-lift
Re-amping
Impedance
Phase
Mic-level, line-level
Balanced and unbalanced
Switchcraft

Lighting

Color wheel
Gobo
Par
Wash
LED
DMX
Chauvet
Sound-activated programs
Pan, tilt, zoom
Pulse, strobe, shake
3-prong Edison outlet
Step/scene programming
Flicker-free

Racks

U (unit) - a "10U" device takes up 10 spaces in a 12" rack
Injection-molded