Digital Lab Audio Production Studio Guide

This guide allows users to begin a recording session using one microphone and GarageBand in the Audio Production Studio.

Please direct all technical questions to the Digital Lab service desk or José Velazco, the Digital Initiatives Coordinator.

Retrieve and loan appropriate microphones from the main lab service desk. Staff will also open studio door.

Carefully attach microphone to stand. Connect XLR cable to microphone and lightly wrap the cable around the stand.
Connect XLR cable to a studio mixer channel strip.

Connect headphones to headphone jack.

Use the following controls to make changes to the quality and level of sound present during the recording session.
Basic Mixer Controls

**Channel Strip**
Controls basic channel levels during recording.

**Monitor Out**
Sends signal to studio monitors.

**USB Out**
Sends signal to computer.

**Audio Meter**
Displays signal strength.

**Monitor Level**
Controls monitor (speaker) level.

**Headphone Level**
Controls signal volume to headphones.

**Headphone Input**
Input for headphones.
Channel Strip Detail

- **Mic**: Input for microphones.
- **Line**: Input for instruments.
- **Gain**: Controls input level.
- **FX**: Controls mixer effect level.
- **Pan**: Controls channel balance from left to right.
- **Level**: Controls channel output level.
- **Equalization Controls**
  - **HF**: Controls high frequency levels.
- **MID**: Controls mid frequency levels.
- **LF**: Controls low frequency levels.
- **AUX**: Controls auxiliary input level.
- **Record**: Control different frequency levels.
- **Listen**: Control different frequency levels.
- **HPF**: Lowers high frequencies.
Using GarageBand

Create a new project in GarageBand by clicking the GarageBand icon on the Dock.

Next to Audio Input: and Audio Output: select (USB Audio CODEC)* as the source.

* Note: GarageBand automatically detects the studio mixer (labeled as USB Audio CODEC). This step ensures the correct source is selected.

During the recording process, it might be necessary to add additional audio tracks.

From the Track menu, select New Track...
Using GarageBand

A new window appears. Select the appropriate track type. For Audio tracks (vocals or live instruments) the (USB Audio CODEC) will be the input and output source.

GarageBand creates a new track

**Track Label**
Labels track with specific name.

**Pan**
Shifts signal from left to right channel.

**Track Icon**
Select from different icons to organize tracks by type.

**Mute**
Mutes track.

**Solo**
Solos track. All other tracks muted.

**Monitoring**
Enables monitoring (listening) of selected track.

**Automation**
Enables automation menu. Automation allows for changes to specific signal parameters over time using key frames.

**Automation Menu**
Click to change automation parameter.

**Audio Meter**
Displays signal strength from studio mixer.
Disconnect all cables and microphones after completing recording session. Neatly wrap cable as shown and place in bag.

Return all microphones, headphones and cables to the Digital Lab service desk.