

# **Classroom Music Dataset: Setup & Timeline Guide**

**STAT 109: Introductory Biostatistics**

# Classroom Music Dataset: Setup & Timeline Guide



Draft

This document is currently in draft status and is not yet finalized.

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## Goal

Use one song per class as a shared, low-effort data-generating object for teaching statistics.

Data are collected at the song  $\times$  class-day level (not individual level).

## BEFORE THE SEMESTER (30–45 minutes total)

### 1. Decide the scope

- **Target:** ~20–40 songs total for the semester
- **Budget:** \$50–\$100 (buy only songs you actually use)

### 2. Choose acquisition & playback

- Buy songs (Amazon MP3, AutoRip CDs, or 7digital)
- **Player:** Windows 11 Media Player, VLC, or MusicBee
- Create one local folder:
  - STAT109\_Class\_Songs\_Spring2026

### 3. Create the Google Sheet

Set up columns (keep it simple at first):

**Identification** - Date - Class number - Song title - Artist

**Song-level (looked up)** - Year released - Genre - Song length (sec)

**Class-level (show of hands)** - students present - familiar - liked - energizing

**(Optional)** - Notes

You can always add columns later.

## DAY 1 (10–15 minutes total)

### 1. Frame the activity (1 minute)

Say something like:

“We’re going to use music as a running data source this semester.”

### 2. Seed the dataset

- Enter 2 songs you like into the sheet
- Briefly point out:
  - rows = observations

- columns = variables

### **3. Collect student suggestions (5 minutes)**

- Give students index cards
- Ask them to write:
  - song title
  - artist
- Collect cards (no tech, no pressure)

### **4. Introduce variable thinking (optional)**

Ask: “What could we measure about these songs or our reactions?”

## **BETWEEN CLASSES (10–20 minutes per week early on)**

### **1. Curate**

- Select a subset of student-suggested songs
- You do not need to include every suggestion

### **2. Buy & download**

- Purchase tracks
- Add to your local playlist

### **3. (Optional) Pre-fill song-level variables**

Year, genre, length can be looked up in advance or assigned to students later

## **EACH CLASS DAY (2–4 minutes)**

### **1. Play the song**

- Full song or ~30–60 seconds
- Start after class officially begins

### **2. Collect class-level data (show of hands)**

Ask, count, and record:

- “How many people are here today?”
- “Who’s heard this song before?”
- “Who liked it?”
- “Who found it energizing?”

### **3. Enter counts live**

You or a student types numbers into the sheet

## **EARLY SEMESTER: TYPES OF VARIABLES DAY**

### **In-class activity (10 minutes)**

As a class, decide:

- Which variables are categorical vs quantitative
- Which are ordinal vs nominal

Vote on:

- 1–2 response variables to keep all semester

This gives students ownership and reinforces concepts immediately.

## **MID–LATE SEMESTER USES (no extra setup)**

Use the same dataset for:

- bar charts (genre)
- histograms (year)
- proportions & rates
- comparisons across days
- confounding (attendance, time of day)
- missing data
- simple regression (with caveats)

## **MAINTENANCE (VERY LIGHT)**

- Buy songs only as needed
- Skip days when time is tight
- Let the dataset be a little messy — that’s a feature

## **Why this works**

- Minimal time cost per class
- No individual data
- No ads or streaming issues
- Grows naturally with the course
- Feels human, not artificial