

Subject to Change
Daily Schedule
Updated: 3/20/25

1. Introduction

WEEK 1

- Mon., Jan. 13 *Course Introduction*
Reading:
- Critchlow, *Quadrivium* (Critchlow 2010)
 - Euclid's *Elements* (Fitzpatrick 2008)
- Wed., Jan. 15 *Visualizing Musical Structure*
- Fri., Jan. 17 – A **Assignments/Activities:** (Due: Wed., Jan. 22, 10:50 am)
- **Quiz 1a:** *Quadrivium*
 - **Quiz 1b:** *Euclid's Elements*
 - **Activity #1:** *Harmony of the Spheres*

WEEK 2

Mon., Jan. 20 M.L.K. Day of Service

2. The Geometry of Pitch

- Wed., Jan. 22 NO CLASS (due to weather)
Reading:
- *Hearing With Our Eyes: The Geometry of Tonal Space*, pp. 123-126 (Hook 2002)
- Fri., Jan. 24 – A **Assignments/Activities:** (Due: Mon., Jan. 27, 10:50 am)
- **Activity #2:** *Mathematics: The Science of Patterns*
- WEEK 3
- Mon., Jan. 27 *One-Dimensional Representations*
Reading:
- *Hearing With Our Eyes: The Geometry of Tonal Space*, pp. 126-134 (Hook 2002)
- Wed., Jan. 29 *Two-Dimensional Representations; Chords & Keys*
- Fri., Jan. 30 – A **Assignments/Activities:** (Due: Mon., Feb. 3, 10:50 am)
- **Quiz 2:** *One-Dimensional Representations*
 - **Quiz 3:** *Two-Dimensional Representations; Chords & Keys*
 - **Activity #3:** *Cymatics*
- WEEK 4
- Mon., Feb. 3 *Pitch-Class Set Theory*
Reading:
- Brian J. McCartin, *Prelude to Musical Geometry*, pp. 354-360 (McCartin 1998)
- Wed., Feb. 5 *Symmetry*
- Fri., Feb. 7 – A **Assignments/Activities:** (Due: Mon., Feb. 10, 10:50 am)
- **Quiz 4:** *Prelude to Musical Geometry* (McCartin 1998)
 - **Activity #4:** *Symmetry*

BAIN MUSC 726G
Geometrical Music Theory

- WEEK 5
Mon., Feb. 10 *Five Components of Tonality*
Reading:
- Dmitri Tymoczko, Five Components of Tonality, from *A Geometry of Music* (Tymoczko 2011, pp. 3-7)
- Wed., Feb. 12 *Scale Theory 1*
- Fri., Feb. 14 – A **Assignments/Activities:** (Due: Mon., Feb. 17, 10:50 am)
- **Quiz 5:** Five Components of Tonality
 - **Activity #5:** What Makes Music Sound ‘Good’?
- WEEK 6
Mon., Feb. 17 *Scale Theory 2*
Reading:
- Dmitri Tymoczko, Musical Objects (OPTIC), from *A Geometry of Music* (Tymoczko 2011, pp. 35-40)
- Wed., Feb. 19 *OPTIC*
- Fri., Feb. 21 – A **Assignments/Activities:** (Due: Mon., Feb. 24, 10:50 am)
- **Activity #6:** Music and Color – *Optional*
- MIDTERM EXAM¹**
- WEEK 7
Mon., Feb. 24 *Midterm Research Project Discussion Day*
Reading:
- Godfried T. Toussaint, "The Rhythm that Conquered the World: What Makes a 'Good' Rhythm Good?" (Toussaint 2011, pp. 1-5)
- Wed., Feb. 26 *Rhythmic Timelines*
- Fri., Feb. 28 – A **Assignments/Activities:** (Due: Mon., March 3, 10:50 am)
- **Quiz 6:** Timelines
 - **Activity #7:** Repetition & Musicality
- WEEK 8
Mon., March 3 *Distinguished Timelines*
Reading:
- Godfried T. Toussaint, "The Rhythm that Conquered the World: What Makes a 'Good' Rhythm Good?" (Toussaint 2011, pp. 5-13)
- Wed., March 5 *Timeline Properties & Analysis*
- Fri., March 7 – A **Assignments/Activities:** (Due: **Wed., March 19, 10:50 am**)
- **Quiz 7a:** Distinguished Timelines
 - **Quiz 7b:** Timeline Properties
 - **Activity #8:** Properties of Rhythmic Loops

¹ The Midterm Exam will be posted on Wed., Feb. 19. The Midterm Exam is due Mon., Feb. 24, 10:50 am.

BAIN MUSC 726G
Geometrical Music Theory

WEEK 9
Spring Break

WEEK 10
Mon., March 17 *Neo-Riemannian Theory*

Reading:

- Bryn Hughes, Neo-Riemannian Triadic Progressions, in *Open Music Theory*, Version 2 (Hughes 2023)

Wed., March 19 *Chains, Cycles & Spaces*

Fri., March 21 – A **Assignments/Activities:** (Due: Mon., March 24, 10:50 am)

- **Quiz 8a:** Neo-Riemannian Theory
- **Quiz 8b:** Chains, Cycles & Spaces
- **Activity #9:** Negative Harmony

WEEK 8
Mon., March 24 *Transformational Analysis*

Wed., March 26 *Midterm Research Project Discussion*

Fri., March 28 – A **Assignments/Activities:** (Due: Mon., March 31, 10:50 am)

- **Quiz 9a:** P, L & R Calculations
- **Quiz 9b:** P', L' & R' Calculations
- **Quiz 9c:** Transformational Analysis
- **Activity #10:** Graphic Music Analysis – *Optional*

MIDTERM RESEARCH PROJECT
Due Fri., March 28, 11:59 pm