

# Department of Music

## MP-208: Digital Recording Techniques

**Instructor:** Robert Anderson  
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*2 class hours, 2 laboratory hours, 3 credits; Prerequisites: MP-103 and MP-204, both completed with a grade of C or better*

This course offers advanced instruction in sound design, synthesis and digital audio using Pro Tools Computer Music Applications. This advanced course will provide students with a comprehensive overview of the use of digital audio in professional sound production.

This is a required senior-level course in the Music Production curriculum

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### Course Objectives:

Students will:

- marry visuals and audio to produce content for Internet-based media
- demonstrate understanding of principals of stereophony, Mid/Side, and Ambisonics
- demonstrate understanding of basic psychoacoustics and sound localization
- Utilise ambisonic microphones and processing
- Mix in various immersive formats, including binaural, Ambisonics, channel-based and object-based formats
- Demonstrate understanding of loudness and its role in mixing and mastering for various media

## **Grading**

Class Participation/Attitude:	5%
Group Project: Surround Mix	10%
Group Project Atmos Mix	10%
Individual Project: Binaural Mix	10%
Individual Project: Ambisonic Concert Video	10%
Individual Project: 360 video mix	10%
Midterm Exam:	25%
Research Paper/Presentation:	20%

## **Attendance:**

Attendance of this class is not optional. Lateness is not tolerated: coming to class more than 20 minutes late will be considered an absence.

Creativity and initiative are rewarded and encouraged. Simply fulfilling the minimum requirements of an assignment will result in a C grade.

## **REQUIRED:**

You will need a pair of headphones with a 1/4" -> 1/8" adapter at **EVERY SESSION** of the class.

## **YOU MUST BRING YOUR OWN HEADPHONES AND ADAPTER TO EVERY CLASS!**

No – you can't borrow mine

## **Academic Integrity Policy**

*Academic honesty is taken extremely seriously and is expected of all students. All assignments must be the original work of the student. All questions or concerns regarding ethical conduct should be brought to the course instructor. "It is the official policy of the College that all acts or attempted acts that are violations of academic integrity be reported to the Office of Student Affairs. At the faculty member's discretion and with the concurrence of the student or students involved, some cases, though reported to the OSA may be resolved within the confines of the course and department. The instructor has the authority to adjust the offender's grades as deemed appropriate, including assigning an F to the assignment or exercise or, in more serious cases, an F to the student for the entire course."*

– From the QCC Academic Integrity Policy 2/14/2005.

## **Additional Considerations:**

- Cheating or falsely representing someone else's work as your own may result in an automatic F for the course
- Cell Phone use is not permitted in class. Use of a cell phone during an exam or quiz results in an automatic grade of zero for that exam/quiz.
- Leaving the room during an exam/quiz is not permitted and will result in a zero for the exam/quiz.
- Eating and drinking are not allowed at any time in the classroom.

**Course Outline (subject to change)**

**Week 1:** Stereophony Basics

**Week 2:** Mid Side in focus

**Week 3:** Ambisonics

**Week 4:** Immersive Audio: Mixing

**Week 5:** Immersive Audio: Recording

**Week 6:** Focus on Binaural

**Week 7:** Digital Audio

**Week 8:** Loudness

**Week 9: Midterm Exam**

**Week 10:** Working with Atmos I

**Week 11:** Working with Atmos II

**Week 12:** Working with 360 video I

**Week 13:** Working with 360 video II

**Week 14:** Finishing up

**Week 15:** Present final projects