PSY 410/510: The Psychology of Music Winter 2007 CRN: PSY 410: 25124 PSY 510: 25123

This syllabus is tentative and subject to change.

Psychology majors: this course counts for major elective credit only.

Overview	What are the neural correlates of our perception of tonality, harmony, melody, and rhythm? How do these relate to acoustics, auditory neurobiology, grouping mechanisms, brain damage, cortical plasticity, and language?
Objectives	To develop the tools and knowledge to ask meaningful questions about music and the brain, how to frame these questions, and how one might attempt to answer them.
Lectures	Tuesday & Thursday 12:00–13:20 PM; 146 Straub Hall Lecture notes should be available on Blackboard before the lecture.
Instructor	Mike Wehr wehr@uoregon.edu office hours: Monday 2:00-3:00 PM in 206 Huestis or by appointment.
Teaching Assistants	Seihwan Oh soh5@uoregon.edu Office hours: TBA Straub 353 Phone: 6-4966
Textbook	none
Readings	All course readings will be available on Blackboard. https://blackboard.uoregon.edu You should also check Blackboard frequently for announcements, course materials, etc.
Discussion Board	Can be used to interact with instructor and other students, and is available on Blackboard. You may post anonymously.
Plagiarism	Is taken very seriously and is grounds for failure or expulsion. You are responsible for understanding what constitutes plagiarism and how to avoid it in your work. Excellent guides on plagiarism can be

found at <u>http://libweb.uoregon.edu/guides/plagiarism/students/</u> and <u>http://www.plagiarism.org</u>. To help educate students about what constitutes plagiarism, in this course we will be using a plagiarism education blackboard plugin to submit term papers.

Cell Phones If it rings in class, or if you're talking on it, it's mine.

Grading

Midterm Exam	25%
Final Exam	25%
Paper	25%
Quizzes	25%
	100%

Exams

The midterm will be a take-home exam, and will be available on Blackboard after class on Tuesday, February 6, and due at the beginning of class on Thursday, February 8. The final will be a take-home exam, will cover the material from the entire course, and will be available on Blackboard after the last class on Thursday, March 15, and due by noon on Monday, March 19.

Paper

The paper should be 8-10 pages, double spaced, and is due at the beginning of class on Thursday, March 8th (submit through Assignments on Blackboard). The topic can be anything related to the course. A number of example topics are available on Blackboard, but regardless of which topic you choose, you must submit the topic for approval by Tuesday, February 21st (submit as part of the online quiz on Blackboard).

Quizzes

You must do the assigned reading *before* each lecture. The day before each lecture, after you've completed the reading, you will need to log onto Blackboard and answer a few short questions in an online quiz format. These are required; they are due by 8 p.m. the night before each lecture, and count for 25% of your final grade in the course. Usually the first question or two will help make sure you understood the important points from the readings. More importantly, you will have a chance to share any aspects of the readings that you did *not* understand, were confused by, or had any other kind of trouble with. Your responses about what you *didn't* understand (and you are surely not alone) will help guide the next day's lecture.

Schedule (subject to change: please be sure to download the Calendar in the Course Documents section of Blackboard for the most up-to-date schedule)

1. Tuesday, January 9 The Frequency Domain Neurology: Amusia and brain damage No reading

2. Thursday, January 11 Acoustics Reading:

3. Tuesday, January 16 The nature of musical sound Reading: Pierce, "The Nature of Musical Sound" 4. Thursday, January 18 Consonance and Dissonance 1 Reading: Tramo et al., "Neurobiological Foundations for the Theory of Harmony in Western Tonal Music"

5. Tuesday, January 23 Consonance and Dissonance 2 Reading: Thompson, "Music of the Hemispheres"

 6. Thursday, January 25 Tonality Reading: Machlis & Forney, "The Organization of Musical Sounds"

7. Tuesday, January 30 Neurobiology of the auditory system 1 Reading: Weinberger, "Music and the Auditory System"

8. Thursday, February 1 Neurobiology of the auditory system 2 No reading

9. Tuesday, February 6Neurobiology of the auditory system 3No readingMidterm becomes available

10. Thursday, February 8 Rhythm 1 No reading **Midterm due at noon**

11. Tuesday, February 13Rhythm 2Reading: Drake, "Temporal Organization of Complex Auditory Sequences"

12. Thursday, February 15 Grouping mechanisms in music 1 Reading: Deutsch, "Grouping Mechanisms in Music"

13. Tuesday, February 20 Grouping mechanisms in music 2 No Reading

14. Thursday, February 22
Neural specializations for tonal processing
Reading: Zatorre, "Neural specializations for tonal processing"
Paper topics due in quiz February 21st

15. Tuesday, February 27 No class

16. Thursday, March 1 The topography of tonality Reading: Janata, "The cortical topography of tonal structures underlying Western music"

17. Tuesday, March 6Musical ImageryReading: Halpern, "Cerebral substrates of Musical Imagery"

18. Thursday, March 8
Songbirds
Reading: Brenowitz, "An Introduction to Birdsong and the Avian Song System"
Papers due at noon (in Assignments on Blackboard)

19. Tuesday, March 13 Musical Hallucinations Reading: Zimmer, "Neuron network goes awry, and brain becomes an iPod"

19. Thursday, March 15 Last class Review for Final **Final exam becomes available**

Monday, March 19 Final due by 5 p.m.