

**COURSE OUTLINE WINTER 2016**  
**PSYCH/MUSICCOG 4PM3 Neuroscience of Music Cognition**

**Instructor:** Dr. Laurel Trainor Psychology Building 305  
[LJT@mcmaster.ca](mailto:LJT@mcmaster.ca) 905-525-9140 x23007

**Course TA:** Aimee Battcock [battcoae@mcmaster.ca](mailto:battcoae@mcmaster.ca)  
Dominique Beauregard Cazabon [beaureda@mcmaster.ca](mailto:beaureda@mcmaster.ca)

**Location:** BSB/238

**Time:** Monday 11:30–1:20; Thursday 11:30-12:20pm

**Office hours:** By appointment

**Course Objectives.** In this course we will examine perceptual, cognitive, and socioemotional aspects of music from a neuroscientific point of view. The roles of evolution, biology, innate factors, and experience in human musical activity and ability will be considered. The class will be run as a seminar, and students are expected to read the assigned papers before class and to participate in class discussions. Students will work in groups, do presentations in class, read primary source materials, and learn to think critically.

**Course Schedule** (subject to revision)

**Readings are available for download from the Avenue Course page for 4MP3.**

<b>M Jan 7</b>	<b><i>Introduction</i></b>
	<b><i>Cultural and evolutionary theories of music</i></b>
<b>M, Th Jan 11, 14</b>	1. Huron, 2001a 2. Trainor 2015
	<b><i>Pitch and melody</i></b>
<b>M Jan 18</b>	3. Trainor et al. 2002 (lecture pitch, relative pitch, infants, birds; paper)
<b>Th Jan 21</b>	4. Huron 2001b (Thursday lecture)
<b>M Jan 25</b>	5. Zatorre, 2001* 6. Herholz, et al. 2012*
	<b><i>Rhythm and movement</i></b>
<b>Th Jan 28</b>	7. Zatorre, Chen & Penhune, 2007
<b>M Feb 1</b>	8. Grahn & Brett, 2007* 9. Schacter et al., 2009*

	<b><i>Entrainment, Parkinson's disease and social interaction</i></b>
<b>Th Feb 4</b>	10. Grahn & Brett, 2009*
<b>M Feb 8</b>	11. McIntosh et al., 1997*
	12. Fujioka et al., 2012*
<b>Th Feb 11</b>	13. Wiltermuth & Heath 2009*
	14. Cirelli et al 2014*
<b>Reading Week</b>	
<b>M Feb 22</b>	<b>Work on presentations; TA's available</b>
<b>Th Feb 25</b>	<b>Presentation group meetings with Prof</b>
	<b><i>Amusia</i></b>
<b>M Feb 29</b>	15. Loui, Alsop & Schlaug, 2009*
	16. Philips-Silver et al., 2011*
<b>Th Mar 3</b>	<b>Presentation group meetings with Prof</b>
	<b><i>Cortical plasticity, learning, and effects of musical experience</i></b>
<b>M Mar 7</b>	17. Jentschke & Koelsch, 2009*
	18. Trainor et al., 2012*
<b>M Mar 7</b>	<b>Progress report on grant proposal due</b>
	<b><i>Expectation, meaning and emotion</i></b>
<b>Th Mar 10</b>	19. Huron, Chapter 1, 2006
<b>M Mar 14</b>	20. Trainor & Zatorre, 2009
	21. Salimpoor et al., 2011*
	<b><i>Experiencing &amp; performing music</i></b>
<b>Th Mar 17</b>	22. Limb & Braun, 2008*
<b>Mar 21, 24, 28, 31</b>	<b><i>Presentations</i></b>
<b>April 4</b>	
<b>Th April 7</b>	23. Sacks, Chapter 6, 2007
	Summary and give out take home exam

## Academic Dishonesty Policy Reminder

Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g., the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty. For information on the various kinds of academic dishonesty please refer to the Academic Integrity Policy, specifically Appendix 3, located at <http://www.mcmaster.ca/academicintegrity>.

## Evaluation

Late assignments will not be accepted unless prior arrangements have been made with the instructor.

- 12% Attendance and participation.** Note that for high marks, comments and questions must make an intellectual contribution.
- 24% Critiques.** Due dates depend on which ones you are assigned.
- 4% Progress Report on Grant Proposal.** Due March 7th
- 15% Written Grant Proposal.** Due the *class before* your oral presentation.
- 15% Oral Presentation of Grant Proposal.**
- 10% Peer Evaluation of Grant Proposal.** Due one week after the presentation you are evaluating.
- 20% Final Take Home Exam**

## McMaster's Grading Scale

90-100	85-89	80-84	77-79	73-76	70-72	67-69	63-66	60-62	57-59	53-56	50-52	0-49
A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

The instructor reserves the right to adjust the final marks up or down, on an individual basis, in the light of special circumstances and/or the individual's overall performance in the course.

A note on dates and deadlines: The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with an explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email regularly during the term and to note any changes.

A note on class attendance: Because much of this class is based on discussion and presentations, it is very hard to do well unless you attend all classes.