MUMT301 — MUSIC AND THE INTERNET

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1. Course Description

The course will cover technologies and resources of the Internet (access tools, data formats, and media) and Web authoring (HTML/Javascript) for musicians; locating, retrieving, and working with information; putting information online; tools for music productivity, music research, music skills development, technology-enhanced learning, and promotion of music and musicians.

The student will be evaluated on the quality of coding assignments, mid-term exam, oral presentation, class participation, and a final project.

2. Instructor Contact

Email: gabriel@music.mcgill.ca
Phone: 514.398.4535 ext. 0300
Office: Room 508, 550 Sherbrooke West (Music Techonology Area)
Office Hours: By appointment

3. Course Detail

Time: Thursday 4:35pm-7:25pm
Place: E-215, Schulich School of Music (555 Sherbrooke West)
Prerequisite: MUMT201 or MUMT202

4. McGill Policies

McGill University values academic integrity. Therefore all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see www.mcgill.ca/students/srr/honest for more information).

In accord with McGill Universitys Charter of Students Rights, students in this course have the right to submit in English or in French any written work that is to be graded. This right applies to all written work that is to be graded, from one-word answers to dissertations.

5. Music Tech Computer Lab Policies and Access

All registered students will automatically have access to room E-125–the Music Technology Computer Lab (MTCL). The maximum storage capacity for your MTCL network account is 10 GB. Unfortunately, there will be no backup for this account. If desired, use an external or flash drive. If you need to print something use Uprint from Library. For additional information about the MTCL rules and regulations see the lab's website: (https://mt.music.mcgill.ca/mtcl_rules_mtcl.htm). The MTCL is available for all students registered in MUMT301 until the end of the term. Check the room's availability at the Booking System (https://rbs.music.mcgill.ca/building/week.php?area=1room=16).

All registered students will receive access to the music.mcgill.ca server, as well as a music.mcgill.ca email account. Access to the server, as well as to the email account, will be valid until 30 August, 2017. After that date, the account will be automatically deactivated unless the student ask the LAN manager for a renewal of the account.

If you have any problem regarding your music.mcgill.ca account contact Alain Terriault, LAN Manager of the Schulich School of Music (alain.terriault@mcgill.ca).

If you there are any MTCL computer-related issues you should contact Darryl Cameron, the MTCL technical manager (darryl.cameron@mcgill.ca).

For access-related issues ot the MTCL you must write an email to the Building Director's Office (building.director@music.mcgill.ca) with a copy to the professor.

6. Course outline for Fall 2016

- September 8th: Course introduction. New Music Economy. Introduction to UNIX/Linux commands.
- September 15th: History of the Internet. Introduction to HTML.
- September 22nd: Internet technologies (e.g., Ethernet, TCP/IP, IP Addresses, DNS, DHCP...) Introduction to CSS.
- September 29th: File formats and compression (i.e., uncompressed, compressed, lossy, lossless) Introduction to Javascript.
- October 6th: Music industry. Music distribution models. Javascript.
- October 13th: **On-demand music streaming services presentation**. Javascript.
- October 20th: Internet Radio. Streaming media softwares. The Infinite Dial 2015: Online radio and music discovery analysis. Intellectual property, copyright, and copyright alternatives. Mid-term preparation. Javascript.
- October 27th: **Mid-term examination**. JavaScript.
- November 3rd: Human and machine-driven music discovery tools. Music recommendation. JavaScript.
- November 10th: APIs and web services. Query and results formats. Music APIs. Javascript and jQuery.
- November 17th: Web-based sound generation. Web-based recording and sequencing applications. Web-based collaborative applications. Free sounds. Javascript.
- November 24th: Music scores and music libraries. Online music editors. Music Information Retrieval. jqPlot and Musicmetrics API.

- December 1th: **Final project proposal presentation. In-class help session for final project**
- December 15th: **Final project submission**.

7. Mark Distribution

- 35% Seven assignments (variable percentage each. See Assignments tab on MyCourses for details)
- 15% Mid-term exam
- 40% Final project (30% project, 10% presentation)
- 10% Participation

8. Assignment Policy

- All assignments are due as indicated on MyCourses (usually on Wednesday before the class)
- Late assignments within 48 hours past the deadline will be given either D or F
- Assignments submitted after 48 hours past the deadline will be given F

9. Bibliography

- Sterne, Jonathan. *MP3: The meaning of a format.* Durham: Duke University Press, 2012.
- Wikström, Patrik. *The Music Industry: music in the cloud.* Cambridge: Verlag Polity Press, 2009.
- Links and electronic resources available in the course webpage on MyCourses

10. Special Events

- September 22nd: CIRMMT Distinguished Lecture: Tim Crawford, Computational Musicology, Goldsmiths University of London: Busy Going Nowhere, or Learning to Live with Error? Personal reflections on three decades using computers with music.
- October 20th: CIRMMT Distinguished Lecture: Henkjan Honing, Music Cognition Group, University of Amsterdam, Netherlands: What makes us musical animals.
- November 17th: CIRMMT Distinguished Lecture: Frank Bedrossian