MUMT301 — MUSIC AND THE INTERNET

GABRIEL VIGLIENSONI
SEPTEMBER 7TH, 2017

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.vigliensonimartin@mcgill.ca
Phone: 514.398.4535 ext. 0300
Office: Room 508, 550 Sherbrooke West (Music Technology 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 offenses under the Code of Student Conduct and Disciplinary Procedures (see www.mcgill.ca/students/srr/honest for more information).

In accord with McGill University's 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-215–the Music Technology Computer Lab (MTCL or MTKPL). 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=1&room=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, 2018. 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 of 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 2017

- September 8th: Course introduction. New Music Economy. Introduction to UNIX/Linux commands.
- September 14th: History of the Internet. Introduction to HTML.
- September 21st: Internet technologies (e.g., Ethernet, TCP/IP, IP Addresses, DNS, DHCP...) Introduction to CSS.
- September 28th: File formats and compression (i.e., uncompressed, compressed, lossy, lossless) Introduction to Javascript.
- October 5th: Music industry. Music distribution models. Javascript.
- October 12th: **On-demand music streaming services presentation**. Javascript.
- October 19th: Internet Radio. Streaming media softwares. The Infinite Dial 2016: Online radio and music discovery analysis. Intellectual property, copyright, and copyright alternatives. Mid-term preparation. Javascript.
- October 26th: No class
- November 2nd: **Mid-term examination**. JavaScript.
- November 9th: Human and machine-driven music discovery tools. Music recommendation. JavaScript.
- November 16th: APIs and web services. Query and results formats. Music APIs. Javascript and jQuery.
- November 23th: Web-based sound generation. Web-based recording and sequencing applications. Web-based collaborative applications. Free sounds. Javascript.

- November 30th: Music scores and music libraries. Online music editors. Music Information Retrieval. jqPlot and Musicmetrics API. In-class help session for final project.
- December 7th: **Final project proposal presentation**.
- December 14th: **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 Tuesday midnight, 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 21st: CIRMMT Distinguished Lecture: Joel Chadabe, NYU Steinhardt, USA: *Music as emergence.*
- October 21st: CIRMMT Distinguished Lecture: Joseph Myers, Kirkegaard Associates, USA: *Recital halls, rehearsal rooms, and research spaces - Speaking of acoustics and the Music Multimedia Room.*
- November 9th: CIRMMT Distinguished Lecture: Toshifumi Kunimoto, R&D Yamaha, Japan: *YAMAHA's musical instruments and audio products as DSP applications.*
- December 13th: CIRMMT Distinguished Lecture: Skip to content. — Skip to navigation Bill Seaman, Duke Trinity College of Arts and Sciences, USA: *Recombinant music: Generative approaches.*