MUMT301 — MUSIC AND THE INTERNET

GABRIEL VIGLIENSONI
SEPTEMBER 3RD, 2019

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: Tuesday 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 (also know as MTCL or MTKPL). E-215 is available for all students registered in MUMT301 until the end of the term. However, this room is also used for other classes, and so you should check availability in the General Music Room Booking System (https://rbs.music.mcgill.ca/building/week.php?area=1&room=16).

The maximum storage capacity for your MTKPL network account is 10 GB. Unfortunately, there will be no backup for this account. If desired or needed, use an external or flash drive. If you need to print something use Uprint from Library.

All registered students will receive access to a server running on the Schulich School of Music. Access to the server will be valid until 30 August, 2020. After that date, the account will be automatically deactivated.

For additional information about rules and regulations of the MTKPL please visit https://mt.music.mcgill.ca/mtkplrules:mtkpl_rules_an_regulations. If you need to troubleshoot the setup or configuration of the MIDI controller, audio, or computer please visit https://mt.music.mcgill.ca/mtkp_troubleshooting:mtkpl_troubleshooting

If you there are any E-215 computer-related issues you should contact Darryl Cameron, the MTCL technical manager (darryl.cameron@mcgill.ca).

For access-related issues to E-215 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 2019

- Class 1: Course introduction. New Music Economy. Introduction to UNIX/Linux commands.
- Class 2: History of the Internet. Introduction to HTML.
- Class 3: Internet technologies (e.g., Ethernet, TCP/IP, IP Addresses, DNS, DHCP...) Introduction to CSS.
- Class 4: File formats and compression (i.e., uncompressed, compressed, lossy, lossless) Introduction to Javascript.
- Class 5: Music industry. Music distribution models. Blockchain and the Music Industry. Javascript.
- Class 6: **On-demand music streaming services presentation**. Javascript.
- Class 7: Internet Radio. Streaming media softwares. Intellectual property, copyright, and copyright alternatives. Mid-term preparation. Javascript.
- Class 8: **Mid-term examination**. JavaScript.
- Class 9: Human and machine-driven music discovery tools. Music recommendation. JavaScript.
- Class 10: APIs and web services. Query and results formats. Music APIs. Javascript and jQuery.
- Class 11: Web-based sound generation. Web-based recording and sequencing applications. Web-based collaborative applications. Free sounds. Javascript.

- Class 12: Music scores and music libraries. Online music editors. Music Information Retrieval. jqPlot and Musicmetrics API. In-class help session for final project.
- Class 13: **Final project proposal presentation**.
- Mid-December: **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

- Herstand, Ari. *How to Make It in the New Music Business: Practical Tips on Building a Loyal Following and Making a Living As a Musician.* New York: Liveright Publishing Corporation, 2017.
- 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, 2014.
- Witt, Stephen. *How Music Got Free : The End of an Industry, the Turn of the Century, and the Patient Zero of Piracy.* New York: Viking, 2015.
- Links and electronic resources available in the course webpage on MyCourses