Brooklyn College
Fall 2018 Sonic Arts & Media Scoring courses:

Courses being offered (course details below):
MUSC 7373X: Building Electronic Music Instruments
MUSC 7744: Electroacoustic Ensemble
MUSC 7015X: Techniques for Recording Music
MUSC 7371: Computer Music I
MUSC 7870X: Sonic Arts Capstone Seminar
MUSC 7375X: Interactive Computer Music
MUSC U7642X: Seminar in Music Theory: "Computational Musicology: Musical Signal Processing"
MUSC 7331X: Sonic Arts Composition Lessons I
MUSC 7332X: Sonic Arts Composition Lessons II
MUSC 7333X: Sonic Arts Composition Lessons III
MUSC 7334X: Sonic Arts Composition Lessons IV
MUSC 7740X: Chamber Music [Recording Session Class].
MUSC 7370X: Music Technology for Media
MUSC 7440X: Music Business for Media
MUSC 7341X: Scoring Composition Seminar
MUSC 7353X: Orchestration for Cinema I
MUSC 7663X: History and Analysis of Cinema Scores
MUSC 7385: Sound Design
MUSC 7342X: Media Scoring Lessons I
MUSC 7343X: Media Scoring Lessons II
MUSC 7344X: Media Scoring Lessons III
MUSC 7345X: Media Scoring Lessons IV
MUSC 7911X: Independent Study for 1 credit.
MUSC 7912X: Independent Study for 2 credits.
MUSC 7913X: Independent Study for 3 credits.
MUSC 7881X: Music Internship (1 credit).
MUSC 7882X: Music Internship (2 credits).
MUSC 7883X: Music Internship (3 credits)

Fall 2018 Sonic Arts Courses:

MUSC 7373X: Building Electronic Music Instruments (3 cr.), Mondays, 4-6:30pm, 118RE. Doug GEERS
In this course students will learn how to design and build their own hardware electronic music instruments. Topics include essentials of electronic circuits and their components, how to combine these into working circuits that produce sounds, and interfacing simple sensors with circuits. Although the focus is on music, many aspects of the course topics are also applicable to interactive electronic art and theater.

MUSC 7744: Electroacoustic Ensemble, (1 cr.), Tuesdays, 6:45-9:15pm, 118RE. Red WIERENGA
Ensemble music performance skills with electronic music instruments. Instruments will include completely electronic ones as well as hybrids that combine acoustic instruments or voices with digital signal processing. Group interaction, incorporation of improvisation, and arrangement of amplified

sound sources. Students will improvise, perform existing repertoire, and have the opportunity to compose new works. The goal of each semester will be one or more public performances. May be taken for credit each semester the student is enrolled.

MUSC 7015X: Techniques for Recording Music, (3 cr.), Wednesdays, 3:45-6:15pm, Feirstein Recording Studio. Angela PIVA
Students will record and mix assignments and a project of their choice, working on the Euphonix Fusion 5 console and Avid S6 control surface in our state of the art Feirstein recording studios. Students will interact with each other during the recording sessions, and will be able to observe the instructor and ask questions regarding the recording and mixdown process. Extensive feedback will be provided to the students helping them to develop critical listening and mixdown fundamentals, enabling them to move to the next level and develop the expertise and knowledge of how to operate at a professional level.

MUSC 7371: Computer Music I, (3 cr.), Tuesday 4-6:30pm, room 118 Roosevelt Hall. Red WIERENGA
The focus of this course – which might be subtitled "Digital Signal Processing for Composers" – is the use and digital transformation of recorded sound for compositional purposes. Students will examine a wide variety of digital signal processes, learning their technical details and how to create our own implementations using digital audio software. Perhaps more importantly, though, they will study how these processes have been put to compositional use by others and – especially – how students can employ them in their own creative practices.

MUSC 7870X: Sonic Arts Capstone Seminar, (3 cr.), Wednesday, 3:45-6:15pm. Marina ROSENFELD
This course is meant for students nearing the end of their studies who wish to begin work on their MFA capstone project. In the course, students brainstorm ideas for the capstone project, research subjects related to their topics, and progressively hone concepts in order to begin work on the capstone project itself. During weekly classes, students discuss readings and examples of successful existing work, as well as their own research and efforts to refine their capstone concepts.

MUSC 7375X: Interactive Computer Music, (3 cr.)**,** Wednesday, 1-3:30pm. Doug GEERS
This course, the first of a two-semester sequence, will explore ideas and methods for creating interactive music and sound art. In the fall semester, we will review general ideas and historical precedents, and then focus on the Arduino and Max/MSP/Jitter platforms. These allow musicians to gather data from sensors and electronic controllers, and use their data to shape musical performances, synthesis, audio processing, and visuals.

MUSC U7642X Seminar in Music Theory: "Computational Musicology: Musical Signal Processing", 3 cr. Tuesday, 2:15-4:45pm, Roosevelt Hall room TBA. Johanna DEVANEY.
In this course, students will gain familiarity with signal processing methods and their application to audio and other musical signals. They will also gain an understanding of how data extracted from audio signals relates to the psycho-physiological experience of hearing, as well as experience with modelling data extracted with signal processing methods. Topics covered in this class include fundamental acoustic concepts, frequency domain transforms, fundamental frequency estimation, onset detection, loudness estimation, and the extraction of high-level audio features related to meter, harmony, form, and timbre.

Sonic Arts composition lessons

Times/days TBD with instructor. Instructors by request, pending availability: Doug Geers, David Grubbs, Morton Subotnick, Marina Rosenfeld, Red Wierenga, Benjamin Vida. It is generally recommended to try lessons with at least two faculty during the MFA program.
7331X: Sonic Arts Composition Lessons I
7332X: Sonic Arts Composition Lessons II
7333X: Sonic Arts Composition Lessons III
7334X: Sonic Arts Composition Lessons IV

Fall 2018 Media Scoring Courses:

MUSC 7740X: Chamber Music, 1 cr. [Recording Session Class]. Wednesday 10-11:30am. Feirstein rec studio, 525A. Jonathan ZALBEN
Weekly recording sessions with performers, composers, and recording engineers. This is an interdisciplinary class, and students are encouraged to try out all aspects of the recording process.

MUSC 7370X: Music Technology for Media, 3 cr. Thursdays, 10:30-1:00. Feirstein computer lab/rec studio, 525A. Jonathan ZALBEN
An overview of the tools and techniques in creating audio for video. Primary DAW/software utilized is Pro Tools. Topics covered include recording, sound editing, music editing, music production, and audio post-production. No prior experience is required.

MUSC 7440X: Music Business for Media, 3 cr. Thursday 1:45-4:15. Feirstein room TBA. Instructor TBA.
Topics include publishing, copyright, work registration, cue sheets, performing rights, royalties, unions, music law and contracts, promotion and marketing, and finances.

MUSC 7341X: Scoring Composition Seminar, 1 cr. Thursdays, 4:30-7pm. Feirstein Music Studio 525A. Jonathan ZALBEN
Masterclasses, guest lectures, workshops, and field trips that highlight various aspects of music for media.

MUSC 7353X: Orchestration for Cinema I, 3 cr. Thursdays, 1:45-4:15pm. Feirstein Seminar Room. Eric HACHIKIAN
Writing and arranging music with an ear toward orchestration techniques for recording sessions and MIDI. Traditional as well as 21st century techniques are covered.

MUSC 7663X: History and Analysis of Cinema Scores, 3 cr. Wednesday 1:15-3:45pm. Feirstein seminar room. Instructor TBA.

MUSC 7385 Sound Design, 3 cr. Wednesday 6:30-9pm. Feirstein Recording studio, 525C. Ron Bochar.
An overview of audio for picture including sound editing, ADR, foley, sound design, and final mix. Expert knowledge of Pro Tools and content covered in MUSC 7370 or equivalent experience is expected.

Media Scoring composition lessons
Times/days TBD with instructor. Instructors by request, pending availability: Jonathan Zalben, Eric Hachikian, and D.D. Jackson. It is generally recommended to try lessons with at least two faculty during the MFA program.
MUSC 7342X: Media Scoring Lessons I

MUSC 7343X: Media Scoring Lessons II
MUSC 7344X: Media Scoring Lessons III
MUSC 7345X: Media Scoring Lessons IV

Independent Studies:

Student-driven project-based learning guided by an advisor. Examples include creating an album, writing a research paper, or piano skills for composition. Independent studies may be taken for elective credit with any full-time member of the faculty: Geers, Grubbs, Zalben, Cohen, or Devaney. A three-credit independent study allows fifteen hours with the instructor per semester. A two-credit allows for ten hours, and a one-credit allows for five hours. The meeting times may be distributed across the semester in whatever way seems best to the student and advisor.

MUSC 7911X: Independent Study for 1 credit.
MUSC 7912X: Independent Study for 2 credits.
MUSC 7913X: Independent Study for 3 credits.

Internships in Music:

Internships are arranged between student and the host organization, individual, or company. Internships require 3 hours of work per week for one credit, 6 hours of work each week for 2 credits, and 9 hours of work each week for 3 credits. Generally, internships will count toward Technical/Professional skills or elective credit requirements. They are usually supervised by Geers for Sonic Arts students.

MUSC 7881X: Music Internship (1 credit).
MUSC 7882X: Music Internship (2 credits).
MUSC 7883X: Music Internship (3 credits)

Sonic Arts Faculty:
Douglas Cohen (http://www.brooklyn.cuny.edu/web/academics/centers/ccm/people/dougcohen.php)
Johanna Devaney (http://jcdevaney.tumblr.com/)
Doug Geers (http://www.dgeers.com)
David Grubbs (http://www.brooklyn.cuny.edu/web/academics/centers/ccm/people/davidgrubbs.php)
Angela Piva (http://www.brooklyn.cuny.edu/web/academics/centers/ccm/people/angelapiva.php)
Marina Rosenfeld (https://www.marinarosenfeld.com/)
Morton Subotnick (http://www.mortonsubotnick.com/)
Benjamin Vida (http://www.brooklyn.cuny.edu/web/academics/schools/mediaarts/departments/music/faculty/benvida.php)
Red Wierenga (http://www.brooklyn.cuny.edu/web/academics/schools/mediaarts/departments/music/faculty/redwierenga.php)

Media Scoring Faculty:
Ron Bochar (https://www.imdb.com/name/nm0090580/)
Ron Gozzo (http://www.rgtmusic.com/about/)
Eric Hachikian (http://www.evhachikian.com/)
Pat Irwin (https://www.imdb.com/name/nm0410436/)
D.D. Jackson (http://www.ddjackson.com/)
Sonny Kompanek (https://www.imdb.com/name/nm0464751/)
Jonathan Zalben (http://www.jonathanzalben.com/)