MUSI 7100 Syllabus

Music Tech Research Lab, 3 credits

Fall 2026

Instructor Information

Instructor: Jason Freeman

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General Course Information

Description

Guided research and creative work in music technology. Investigation of novel technological and artistic concepts. Design and develop new hardware, software, and musical artifacts.

Course Learning Outcomes

After successful completion of the class, the students will demonstrate:

- knowledge of technical and aesthetic practices in music technology,

- the ability to design and implement artistic works, artifacts and interfaces, software, software

- frameworks, research studies, and/or educational interventions in music technology

- the ability to approach a research project by formulating the research question, doing a literature survey, designing and realizing the methodology, evaluating and analyzing the results systematically, and presenting the results in a presentation and a scientific paper, artistic work, and/or artifact.

Required Course Materials

Course materials vary depending on the project you are pursuing, and will be determined in the course of individual and lab meetings.

Grading Policy:

The overall course grade consists of:

attendance 15%

project work 50%

paper 15%

final presentation 20%

Assignments

Description of Graded Components

attendance: presence in Monday seminars and participation in scheduled individual / small group meetings. Do not come if you are not feeling well!

project work: your individual or group project for this semester. Grades will assigned according to quality, significance, and impact of your contributions to the project, the ability to complete assigned tasks in a timely manner, the ability to communicate and collaborate with others, and the innovations and ideas that shape the direction of our research.

paper: conference style paper describing the project in a scientific style in a quality that would allow conference submission. Grades will be assigned according to structure, clarity, references, quality of information, and form.

presentation: there will be a demo day at the end of the semester where you will present your work to other students and faculty. Second year students will also present their MS project or thesis in the Monday seminars. The presentation grade will be assigned according to the organization, completeness, verbal and non-verbal presentation skills and the quality of the visual materials.

Course Policies

Attendance and/or Participation

You are expected to attend the school-wide Monday research seminar, our lab-wide meeting on Wednesdays, and a one-on-one research meeting with the instructor weekly. Other than excused absences or illness, you are expected to attend each meeting, to come prepared, and to fully engage in the discussion.

Academic Integrity

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. Review Georgia Tech's Honor Code and the student Code of Conduct.

Any student suspected of cheating or plagiarism on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services (404-894-2563) as soon as possible to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

Student-Faculty Expectations Agreement

At Georgia Tech, we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. The Student-Faculty Expectations articulate some basic expectations that you can have of me and that I have of you. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek. Therefore, I encourage you to remain committed to the ideals of Georgia Tech while in this class.

Collaboration, Group Work, and Use of Generative AI

We strive to create a collaborative environment where research collaborations emerge organically and everyone provides feedback and assistance to each other. The deliverables for this course are all individual, not group, so it is important to provide explicit acknowledgement and credit to others if and when they play a critical role in your research. Similarly, the use of generative AI tools is encouraged when it can help with literature review, background research, writing assistance, and related areas — but it is essential to document when and how you have used AI tools in your work. Because research in this course is tailored to each individual student, and there are weekly one-on-one meetings with the instructor, please proactively discuss questions about collaboration and AI use with the instructor as they arise.

Extensions, Late Assignments, & Re-Scheduled/Missed Exams

Extensions must be requested in writing in advance of deadlines. If work is not turned in on time and an extension has not been granted in advance, a penalty of 10% per day late will be assessed.

Inclement Weather and Digital Learning Days

In the event of inclement weather, a meeting link will be shared with students to meet virtually via Teams.

Campus Resources for Students

Graduate Student Academic and Professional Success Resources:

A list of resources for graduate students is given on the Office of Graduate and Postdoctoral Education website. Specific information for current graduate students includes

- Academic Resources such as the Communications Center, Language Institute, Library, Catalog, Registrar, resources for conducting research, Advocacy and Conflict Resolution resources, and how to manage unexpected situations that may impact your academic performance;
- Student Resources such as Campus Services, Child Care/Family programs, Health & Wellness, Career Services, and the Student Resource Guide; and
- Professional Development such as the programming from the Career Center and other professional development resources and events

Student Well-Being:

At Georgia Tech, we are concerned about your overall physical, social, and mental well-being. A comprehensive list of wellness related resources has been compiled and maintained by the Office of the Vice President for Student Engagement and Well-being.