MUSI 7100– Music Technology Research Lab

Location: 512 Means street Robotic Musicianship lab
Official Meeting times: Monday-Wednesday 10:35-11:55
Actual Meeting time – Monday- Wednesday – 12:00-15:00
Due to the individual study nature of the course, individual meetings with students will be conducted throughout the week based on students' progress and needs.

Professor: Dr. Gil Weinberg
GT phone: 404.894.8939
Hours: by appointment

Class Description

The class addresses topics in computer supported interactive musical performance, robotic musicianship, music perception and improvisation. Students will learn how to define, conduct and present research projects in music technology as they work on a set of hands-on assignments based on class discussions and homework readings. Students will implement their theoretical knowledge and critical thinking in the design and development of interactive music modules for the robotic musicianship project. The individual-study nature of the class will allow students to define their own research directions and assignment based on their personal interests and skills. The Syllabus below is, therefore, suggestive and may be adapted and modified to address students' interests.

Prerequisites:

Familiarity and practical experience with music theory and computer programming. Background in music performance, composition, electrical engineering, design and/or interactive art will be an asset.

Evaluation:

Student grades will be based on attendance, weekly assignments, a midterm project and a final project. Students will be encouraged to work on class projects in groups, in which they will develop working prototypes related to the robotic musicianship project. Students are expected to define their personal contribution to any collaborative project.

1. Grading: all 7100 projects will be graded according to the following breakdown:

   - Participation 80%
   - Final presentation 20%

   * Attendance refers to meeting with your advisor, your group members as well as

the Monday Seminar.

2. Rubrics for Grading – Below standardized rubrics for project presentation and research paper grading. Rubrics for the grading of the project itself will be agreed upon personally with your advisor based on the nature of your project.

3. During the weeks in which second year students present in the Monday Seminar, a meeting will be scheduled for each presenter with the faculty members to follow up with clarifications, questions and suggestions for improvements.

Presentation Grading Sheet

Name: _____
Title: _____
Date: _____

Grade	Component	91-100 Excellent	71-90 Good	46-70 Fair	0-45 Poor
	Nonverbal Skills (NS)	Direct eye contact, fluid gestures and relaxed and self-confident. (Seldom looks at notes)	Eye contact, more frequently looks at notes, minor tension evident.	Little eye contact, reading mostly from notes, displays tension	No eye contact, no movement, trouble recovering from mistakes & obviously nervous.
	Verbal Skills (VS)	Demonstrates positive feelings about topic, clear voice with correct pronunciation.	Mostly positive feelings about topic, voice is clear & understandable.	Shows some negativity towards topic. Voice is low or interrupted by "uh", "ah", etc.	No interest in topic, mumbles, audience is unable to hear.
	Visual Aids (VA)	Readable, clear, professional looking, increase understanding.	Mostly clear, readable and professional.	Significant problems with readability, clarity, or professionalism.	Unreadable, unclear, unprofessional.
	Organization (OR)	Logical and interesting sequence of presentation.	Logical sequence of presentation.	Audience has difficulty following due to jumps.	Audience unable to understand due to poor organization.
	Correctness & Completeness (CC)	Topic is fully covered, facts are correct, audience gains proficiency in the topic.	Topic is well covered with correct facts, audience learns the major points.	Factual errors or omissions. Audience gains a feeling for the topic.	Significant factual errors or omissions. Audience learns little.
	Timeline (TL)	Detailed, realistic weekly timeline with a complete set of tasks.	Proper timeline, but lacking some detail, some minor project tasks might be missing.	Incomplete timeline, tasks are missing and lacking details, timeline is not realistic.	Timeline is insufficient, missing important tasks, and/or impossible to match.
	Evaluation (EV)	The evaluation is properly planned and achievable in terms of dataset and metrics and methodology in general.	The planned evaluation is fine but lacks sufficient/fitting data or proper metrics.	The planned evaluation is acceptable but has significant issues in terms of general methodology.	The evaluation is insufficient in terms of data and metrics. The methodology does not allow for a meaningful result.

Final Grade = $\frac{10*NS+20*VS+20*VA+25*OR+25*CC+25*TL+25*EV}{150}$