Date

Fall 2019

Course Number and Title:

MUSI 4705 Music Technology Capstone

Credits and Hours

4 credit hours – 2 hours lecture and 6 hours supervised lab

Instructor

Dr. Gil Weinberg

* Couch Music Building – 840 McMillan Street – Room 205b – (404) 894-8943
* Office Hours: M/W 11:00 – 12:00 pm.

Required prerequisite:

MUSI 3770 Project Studio: Technology and MUSI 3771 Project Studio: Analysis

Course Objective and Learning Outcomes

The capstone course provides an opportunity for students to demonstrate that they have achieved the goals for learning at the BSMT program. Students will work on a hands-on project, implementing the theoretical and technical knowledge that they have been acquiring during their studies.

* Outcome 1: **Create and conceive musical artifacts with technology**. Students will create musical artifacts with industry standard production tools and techniques using an understanding of the theory and function of these tools to make creative decisions.
* Outcome 2: **Create and conceive technological artifacts for music.** Students will create innovative software or hardware artifacts that are grounded in scientific research and enable novel musical composition, performance, sound design, production, or other applications in the music industry.
* Outcome 3: **Display musicianship skills in novel ensemble contexts**. Students will participate in ensembles in which they perform on traditional instruments complemented by technological artifacts and/or perform on instruments or interfaces not normally found in conventional ensembles, displaying musicianship skills necessary to perform expressively in these contexts.

Procedures:

Class will meet twice weekly from 1:05 to 4:55 pm and attendance is required. There will be two hours of lecture from 1:05 to 1:55 and four hours of supervised laboratory from 2:05 to 4:55 PM.

Method of Evaluation:

The following evaluative tools will be utilized in measuring progress towards obtaining the class objectives:

Progress reports 30%

Midterm Presentation 30%

Final Project Presentation 40%

TOTAL 100%

All reports and tests will be graded by points. The final grade for the course will be determined by dividing the total points earned by the number of points possible for each of the categories listed in Method of Evaluation. These numbers will be converted into a grade according to the following scale: A=100-90%, B=89-80%, C=79-70%, D= 69-60%, F= 59% and below.

Grading Policies

Progress reports are due *by the beginning of class* ON THE DUE DATE. A penalty of one letter grade per day will be applied to all late assignments. Documented illnesses and family emergencies are excepted, of course. Quizzes and exams cannot be made up unless you have a valid, documented excuse.

Academic Integrity

Students must do their own work on their project unless collaboration is previously specified and approved by the instructor. Students are expected to abide by the Georgia Tech Honor Code and avoid any instances of academic misconduct. Please refer to the published Georgia Institute of Technology Academic Honor Code for further information:

* osi.gatech.edu/plugins/content/index.php?id=46

Statement Regarding Students With Disabilities:

In accordance with the Americans with Disabilities Act, students with bona fide disabilities will be afforded reasonable accommodation. The ADAPTS Office will certify a disability and advise faculty members of reasonable accommodations. The web site for a student requesting accommodation is:

* <http://www.adapts.gatech.edu/plugins/content/index.php?id=12>

Course Outline

Week 1 – Introduction to Capstone

Week 2 – Project Selection and Planning

Week 3 – Software / Hardware Design

Week 4 – Project Development 1

Week 5 – Project Development 2 – progress report due

Week 6 – Project Development 3

Week 7 – Mid Term Project Presentation and Critique

Week 8 – Project Development 4

Week 9 – Project Development 5 – progress report due

Week 10 – Project Development 6

Week 11 – Project Development 7 – progress report due

Week 12 – Project Development 8

Week 13 – Project Development 9

Week 14 – Team Project Presentations

Week 15 – Team Project Presentations