New Course Request

Check Appropriate Boxes: Undergraduate credit ☑️  Graduate credit ☐  Professional credit ☐

1. School/Division: Visual and Performing Arts
2. Academic Subject Code: MUS
3. Course Number: A207 (must be cleared with University Enrollment Services)
4. Instructor: Fisher
5. Course Title: Synthesis

Recommended Abbreviation (Optional) (Limited to 32 Characters including spaces)

6. First time this course is to be offered (Semester/Year): Fall 2011
7. Credit Hours: Fixed at 3 or Variable from ______ to ______
8. Is this course to be graded S-F (only)? Yes ☑️  No ☐
9. Is variable title approval being requested? Yes ☑️  No ☐
10. Course description (not to exceed 50 words) for Bulletin publication: Cr: 3 P: MUS A103, MUS T114 or permission of instructor. C: MUS T213. The history and programming fundamentals of music synthesis; exploration of the components of both hardware and virtual synthesizers with an emphasis on using them to create desired sounds; programming of hardware and virtual instruments. Topics include the major synthesizer sections and parameters, historical and future uses in sound creation.

11. Lecture Contact Hours: Fixed at 3 or Variable from ______ to ______
12. Non-Lecture Contact Hours: Fixed at ______ or Variable from ______ to ______
13. Estimated enrollment: 10 of which 0 percent are expected to be graduate students.
14. Frequency of scheduling: Every Fall
15. Justification for new course: To support Music and Outside Field: Technology *Required of these majors only

16. Are the necessary reading materials currently available in the appropriate library? Yes ☑️
17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials.
18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant

19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by: [Signature] Date: 5-25-11

Date Department Chairman/Division Director

Dean of Graduate School (when required) Date

Approved by: [Signature] Date: 5-26-11

Dean

Chancellor/Vice-President

University Enrollment Services Date

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.
MUS A207: Synthesis

Instructor: Daniel Fisher

OVERVIEW: MUS A207 focuses on hands-on programming, preparing the student for real-world situations which require that an existing sound be modified, or entirely new sounds be created according to a project's needs. Teaching methods include reading assignments from the text and selected handouts, lectures and in-class demonstrations and quizzes, as well as listening to audio examples, and hands-on programming of both hardware and virtual instruments. Students are expected to prepare for class by reading assignments and completing any homework, and to ask agenda-focused questions and participate in discussions.

Prerequisites are Audio Recording I (MUS A103) and Music Theory II (MUS T114) or Permission of Instructor. Co-requisites are Music Theory III (MUS T213).

COURSE DESCRIPTION

Cr. 3. P: MUS A103, MUS T114 or Permission of Instructor. C: MUS T213. The history and programming fundamentals of music synthesis; exploration of the components of both hardware and virtual synthesizers with an emphasis on using them to create desired sounds; programming of hardware and virtual instruments. Topics include the major synthesizer sections and parameters, historical and future uses in sound creation.

LEARNING OUTCOMES:
- Students will demonstrate factual knowledge (terminology) of music synthesis.
- Students will be able to demonstrate fundamental principles, techniques, and applications of music synthesis.
- Students will demonstrate a broad understanding and appreciation of careers in the music synthesis industry.
- Students will demonstrate the ability to analyze and recognize basics of music synthesis through musical examples and hands-on demonstration.
- Students will demonstrate the ability to explain the process of music synthesis programming.

REQUIRED MATERIALS:
- External bus-powered Firewire hard-drive (minimum 320GB)

EVALUATION:
- Students will be evaluated through written tests including a mid-term and a final exam as well as periodic small synthesis programming projects and the final synthesis project which will include written descriptions of the parameters and controls.