



# UNIVERSITY OF NICOSIA ΠΑΝΕΠΙΣΤΗΜΙΟ ΛΕΥΚΩΣΙΑΣ

## MUS-140 Computer Music Technology II

<b>Course Code</b> MUS-140	<b>Course Title</b> Computer Music Technology II	<b>ECTS Credits</b> 5
<b>Department</b> Music & Dance	<b>Semester</b> Fall	<b>Prerequisites</b> Computer Music Technology I (MUS 135)
<b>Type of Course</b> Required	<b>Field</b> Computer Music	<b>Language of Instruction</b> English
<b>Level of Course</b> 1 <sup>st</sup> Cycle	<b>Year of Study</b> 2 <sup>nd</sup>	<b>Lecturer(s)</b> Michalis Chrysanthou
<b>Mode of Delivery</b> Face-to-face	<b>Work Placement</b> N/A	<b>Co-requisites</b> None

### Objectives of the Course

1. Explore further the capabilities of modern music sequencers used by Professional Musicians & Sound Engineers.
2. Introduce Audio and Audio recording techniques.
3. Help students gain familiarity with editing and mixing procedures in Music sequencers.
4. Develop further students' Digital Composition Skills.

### Learning Outcomes

After completion of the course students are expected to be able to:

1. Define the fundamentals of Audio.
2. Record efficiently voice or instruments in their DAW using the right microphone techniques.
3. Edit and mix properly the recorded material using the right tools and proper techniques.
4. Combine efficiently Midi and Audio to produce advanced digital compositions.
5. Export and burn the final mix in to an audio CD.

### Course Contents

- Introduction to Audio Terminology and Studio settings.
- Elementary acoustics: sound waves, instrument and room acoustics, electronic

acoustics

- Cubase: Introduction to Audio Recording Techniques.
- Cubase: Introduction to Audio Editing and Tools.
- Cubase: Automation features and Mixing Techniques
- Cubase: Export settings (Sample Rate and Bit Resolution)
- Pro Tools: Introduction to Audio editing.
- Pro Tools: Advanced features in Audio Editing. Automation. Using Markers.
- Pro Tools: Mixing techniques and using effects.
- Pro Tools: Stereo Imaging Considerations.
- Pro Tools: Export final mix settings.

### **Learning Activities and Teaching Methods**

Lectures, assignments, exams, projects, class participation

### **Assessment Methods**

Mid-Term Exam; Final Exam; Class Participation, Projects

### **Required Textbooks/Reading**

<b>Authors</b>	<b>Title</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
Barlett Bruce	<i>Practical Recording Techniques, 5<sup>th</sup> edition: The Step-by-Step Approach to Professional Audio Recording</i>	Focal Press	2008	978-0240811444

### **Recommended Textbooks/Reading**

<b>Authors</b>	<b>Title</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
F. Alton Everest	<i>Master Handbook of Acoustics</i>	McGraw-Hill/TAB Electronics	2009	978-0071603324
Rhoe Izhaki	<i>Mixing Audio: Concepts, Practices and Tools</i>	Focal Press	2008	978-0240520681