

## Global Learning Semesters

### Course Syllabus

Course: MSPM-351 Advanced Computer Systems for Music

Department: Design

Host Institution: Intercollege, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
MSPM-351	Advanced Computer Systems for Music	3
Semester Offered	Contact Hours	Prerequisites
Fall, Spring	42	None
Department	Level of Course	Language of Instruction
Design	Upper Division	English

### Course Description

- Hardware, Software, Micros, Minis, Mainframes, Super Computers
- History of Computers, Computer Generations
- Information Processing Cycle, Data Organization, Batch vs. Interactive Processing
- Input, Terminals, Special Purpose Input Devices, (MIDI) Input Controls (Music Keyboards) Mix. Console
- Output (speakers, Hifi & Aux Systems, Printing music score, Letter and music fonts, High Speed Printers), CRT Technology, Output Controls, User Interface (MIDI)
- Processor Unit, Data Representation, RAX, Auxiliary Storage (CD data storage-CD Audio storage)
- File Organization: Sequential, Indexed, Relative files
- Date Communications, Modems, Network, LANS

### Instructor

Panicos Giorgoudes

### Course Aims and Objectives

This course is an introduction to advanced computers and information processing for music production and to programming language. The students are taught advanced techniques to operate a computer for music composition, production, editing – distortion and presentation. They are also taught to solve personal, business, artistic, engineering or scientific problems working with computer systems for music. This course explains, in other words, what a computer is, how it works and how can be used for music and Hifi systems and other Aux systems. Finally provides students with an advanced “hands on” experience, as it includes an introduction to the BASIC programming language.  
tools.

### Teaching Methods

The course is delivered through a mixture of lectures, studio presentations, studio tutorials and practical exercises and assignments.

### Course Teaching Hours

42 hours . The course is delivered during the Fall and Spring semesters in 14-weeks (3 hours/week).

## Evaluation and Grading

Homework: 20%  
Mid-Term: 30%  
Final Exam: 50%

## Readings and Resources

### Required Textbook

- Peter Lawrence Alexander, Caroline J. Whitear (Editor), How MIDI Works, 6<sup>th</sup> Edition (Paperback – May 2001)