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# MO801 - Tópicos em Arquitetura e Hardware - Methodologies and Tools for Computer Architecture Research

## Update

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09/09 Classroom 352 was assigned to this course.

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01/08 Registered students: Graduate (MO801R.txt).

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01/08 Classes will take place at room 352.

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01/08 Important dates in the school calendar: Graduate (<http://www.dac.unicamp.br/portal/pos/calendarios/calpos2014/index.html>) and Undergraduate (<http://www.dac.unicamp.br/portal/grad/calendarios/calgra2014/index.html>) programs.

## Description

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This course will cover tools and methodologies for Computer Architecture research including modern simulators, benchmarks for single/multi-cores and clusters. We will study recent papers on the area and how they model pipelines, caches, execution engines, power evaluation, etc.

## Bibliography

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The recommended bibliography contains:

- Processor Microarchitecture: An Implementation Perspective. Antonio González, Fernando Latorre and Grigorios Magklis. Synthesis Lectures on Computer Architecture. Morgan & Claypool Publishers.
- Recent papers from Top Conferences

## Evaluation

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**Written exam:** 40% of final grade.

**Projects:** 60% of final grade.

**Any unethical behavior related to the evaluation process will result in failing the course with the lowest possible grade. Every assignment is an individual assignment unless otherwise mentioned. Students are not expected to talk to each other about solutions to the assignments unless otherwise mentioned.**

# Office hours

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I will provide 1h of office hour after each class. If you need more or alternative time, feel free to schedule by email.

# Course Project

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To be defined

# Schedule

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Date	Class	Topic
02/sep	-	No class activity
04/sep	-	
09/sep	1	Class presentation/introduction
11/sep	2	
16/sep	3	
18/sep	4	
23/sep	5	
25/sep	6	
30/sep	7	
02/oct	8	
07/oct	9	
09/oct	10	

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14/oct	11	
16/oct	12	
21/oct	13	
23/oct	14	
28/oct	15	
30/oct	16	
04/nov	17	
06/nov	18	
11/nov	19	
13/nov	20	
18/nov	21	
20/nov	-	Holiday
25/nov	22	Exam
27/nov	23	
02/dec	24	
04/dec	25	
09/dec	26	
11/dec	27	
16/dec	28	
18/dec	29	
23/dec	30	