

Department of Electrical and Computer Engineering
University of Puerto Rico
Mayagüez Campus

ICOM 4029 – Compiler Construction Course Outline – Fall 2008

Topics	Estimated Hours
Course Introduction and Overview	2.0
The COOL Language (UC Berkeley)	1.0
Lexical Analysis: Finite State Automata	3.0
Syntactic Analysis I: Introduction to parsing	1.0
Syntactic Analysis II: Top-down parsing	3.0
Syntactic Analysis III: Bottom-up parsing	4.0
EXAM I	
Semantic Analysis: Type checking	6.0
Runtime Systems	2.0
Code Generation Essentials	4.0
EXAM II	
Code Optimization	4.0
FINAL EXAM	
Total number of hours	30

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