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# EE 434 vs. EE 466

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# Comparison

	EE 434	EE 466
Title	ASIC and Digital Systems Design	VLSI Design
Offered	Spring	Fall
Credits	3	3
Prerequisites	EE 234, EE 321	EE 234
Instructor	Dae Hyun Kim	Dae Hyun Kim

# Contents

Contents	EE 434	EE 466
Transistor (TR) operations	O	O
TR-level logic design, analysis	O	O
TR sizing	O	O
Basic sequential logic (latches, flip-flops)	O	O
Electrical analysis (steady-state (DC), switching, power)	O	O
Advanced circuit design techniques (dynamic CMOS, domino, ...)	X	O
Advanced circuit design (sequential logic)	X	O
Memory	X	O
Arithmetic units (adders, multipliers, ...)	X	O
Physical design (layout) and analysis	O	X
Interconnect analysis	O	X
Timing analysis, static timing analysis	O	X
VHDL	O	X
Testing	O	X