Master of Science (M.S.) – Thesis Program

Electrical and Computer Engineering Department

Digital IC Design Track

All master's students must complete a tentative degree plan approved by the adviser no later than the second quarter of residence at PSU. **NOTE:** all changes must be initialed and dated by both the student and the adviser. All Pre-admission and Transfer credits MUST be approved by both the ECE Department and the Office of Graduate Studies via DARS exceptions. Use the columns on the right to indicate (P) Pre-admission (taken at PSU before formal admission) and (T) Transfer credits (taken at another institution). Master's students may apply no more than three credits of ECE 507 Graduate Seminar toward degree elective requirements. Courses with a grade of C+ or lower can be used toward elective requirements only with advisor approval.

	TERM	GRADE	Credits	P	T
Grad School Essentials – Complete 2 credits					
ECE 563 Grad School Essentials I					
ECE 564 Grad School Essentials II					
Core – Complete 20 credits					
ECE 525 Digital Integrated Circuit Design I					
ECE 526 Digital Integrated Circuit Design II					
ECE 540 System on a Chip Design with FPGAs					
ECE 581 ASIC Modeling and Synthesis					
ECE 515 Fundamentals of Semiconductor Devices					
ECE 516 IC technologies					
ECE 521 Analog Design Integrated Circuit I					
ECE 522 Analog Design Integrated Circuit II					
ECE 527 High-Performance Digital Systems					
ECE 528 VLSI-Computer-Aided Design					
ECE 529 Advanced VLSI Computer-Aided Design					
ECE 531 Microwave Circuit Design I					
ECE 544 Embedded System Design with FPGAs					
ECE 575 Introduction to Integrated Circuit Test					
ECE 582 Formal Verification of HW/SW Systems					
ECE 583 Low Power IC Design					
ECE 585 Microprocessors System Design					
ECE 586 Computer Architecture					
ECE 587 Advanced Computer Architecture I					
ECE 588 Advanced Computer Architecture II					
ECE 590 Digital Design Using Hardware Description Languages					
Thesis – Complete 9 credits					
ECE 503 Thesis					
ECE 503 Thesis					
ECE 503 Thesis					
Electives – Complete 14 credits					
Write in course number and name					
		TOTAL CREDITS:			

Notes: _____

Email: _____ ID#: _____

Student Name: _____ Signature: _____

(Last) (First)

Adviser: _____ Signature: _____

(Last) (First)

Date:

ECE Graduate Director Signature: _____ _____