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

Electrical and Computer Engineering Department

Design Verification and Validation

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 571 Intro to System Verilog for Design & Verification					
ECE 585 Microprocessor System Design					
ECE 593 Fundamentals of Pre-Silicon Validation					
ECE 595 Emulation and Functional Specification Verification					
ECE 540 System On Chip Design with FPGAs					
ECE 550 Post-Silicon Functional Validation					
ECE 560 Assertion Based Verification					
ECE 581 ASIC: Modeling and Synthesis					
ECE 582 Formal Verification of Hardware/Software Systems					
ECE 586 Computer Architecture					
ECE 587 Advanced Computer Architecture I					
ECE 590 Digital Design using Hardware Description Languages					
ECE 597 Post-Silicon Electrical Validation					
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)

ECE Graduate Program Director Signature: _____   Date: _____