Master of Science (M.S.) Coursework-only Program
Electrical and Computer Engineering Department

Signal Processing and Machine Learning Track

All master's students must complete a tentative degree plan, which is 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 Graduate School. Use the columns on the right to indicate approved (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, and only with advisor approval.

	TERM	GRADE	Credits	P	T
Core – 16 credits required					
EE 516 Mathematical Foundations of Machine Learning					
EE 520 Random Processes					
EE 522 Discrete- Time Signal Processing					
EE 523 Estimation & Detection					
Depth and Breadth Course list - 16 credits required					
EE 513 Introductory Image Processing					
EE 514 Advanced Image Processing					
EE 515 Computer Vision					
EE 518 Machine Learning Theory & Algorithms					
EE 519 Deep Learning Theory & Practice					
EE 525 Spectral Estimation					
EE 526 Adaptive Filters					
EE 527 Sensor Array Processing					
EE 528 State Space Tracking					
EE 529 Signal Processing Practicum					
One additional ECE or EE lecture class – 4 credits required					
Write in course number and name					
Electives – 9 credits required - Recommendation: STAT 671-3 Statistical Learning I-III					
Write in subject, course number and name					
	TOTAL CREDITS:				

Notes: _____

Email: _____ ID#: _____

Student Name: _____ Signature: _____
　　　　　　　(Last)　　　　　　(First)

Adviser: _____ Signature: _____
　　　　(Last)　　　　　　(First)

ECE Graduate Director Signature: _____ Date: _____

Updated 2024