# Department of Electrical and Computer Engineering
# Ph.D. Qualifying Exam Part A - Core Courses Form

Ph.D. Qualifying Exam Part A - Core Courses Are:

| Area | Fall semester | Spring semester |
|---|---|---|
| Electromagnetics | ECE 835: Advanced Electromagnetic Fields and Waves I | ECE 850: Electrodynamics of Plasmas |
| Materials and Devices | ECE 874: Physical Electronics | ECE 875: Electronic Devices |
| Microelectronics | ECE 832: Analog Integrated Circuit Design | |
| Computing | ECE 830: Embedded Cyber-Physical Systems (yet to be approved by ECE faculty) | ECE 816: Cryptography and Network Security |
| | | ECE 884: Deep Learning and Neural Networks |
| Controls & Robotics | ECE 851: Linear Systems and Control | ECE 818: Robotics |
| Energy and Power Systems | ECE 821: Advanced Power Electronics and Applications | ECE 822: Power System Analysis |
| Signal Processing and Communications | ECE 863: Analysis of Stochastic Systems | ECE 864: Detection and Estimation Theory |

From the above table of courses, list below the three courses for your Part A qualifying exam.

Course #1: _____ Semester Taken: _____ Grade Received: _____

Course #2: _____ Semester Taken: _____ Grade Received: _____

Course #3: _____ Semester Taken: _____ Grade Received: _____

Return this form with the above information filled in to the ECE Graduate Secretary, Meagan Kroll (krollm@egr.msu.edu) in room 2325 Engineering Building.

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YES NO

☐ ☐ Each course grade above is 3.0 or higher.

☐ ☐ The average grade for the three courses above is 3.5 or higher.

☐ ☐ The courses listed above were completed within 2 years of entering the ECE Ph.D. Program.