TO: ECE Faculty and ECE Ph.D. Applicants who have not taken the Ph.D. Preliminary Exam

FROM: P. Siy, Graduate Committee Chair

SUBJECT: ECE Ph.D. Written Preliminary Examination

DATE: June 26, 2006

The purpose of the Ph.D. Preliminary examination is to determine if a student is well prepared for pursuing Ph.D. study in Electrical and Computer Engineering. Specifically, the purpose of this written examination is to determine if the student has sufficient background knowledge (obtained both from courses and a study of the suggested references given with the Ph.D. Preliminary Exam Outlines) in three of the following areas:

1. Communications – Drs. Q. Cheng and Y. Zhao
2. Electromagnetic Fields and Waves – Drs. I. Avrutsky, and J. Woodyard
4. Photonics - Drs. I. Avrutsky, J. Choi, and Y. Zhao
5. Software Engineering – Drs. N. Sarhan, H. Singh and C. Xu
6. Solid State Electronics - Drs G. Auner, J. Choi, and X. Han
7. Switching Theory – Drs. H. Singh, and P. Siy
10. Mathematics – Drs. I. Avrustky, and H. Ying

The exam shall be administered every Fall and Winter semester. It shall be administered in the Fall semester on the third Friday of November and in the Winter semester on the Friday after Spring Break. Fall Exam is scheduled on November 17, 2006 (Friday).

NOTE: The new Ph.D. Preliminary Exam Format and this form are now posted in the Department website

CUT BELOW & RETURN The Hard Copy or email (psiy@ece.eng.wayne.edu) to Dr. Siy by FRIDAY, November 3, 2006.

To: Dr. P. Siy, Room 3125 Engineering DUE: November 3, 2006 (Friday)

I wish to take the three written Ph.D. examinations indicated below:

1  2  3  4  5  6  7  8  9  10

NAME: ___________________________ (signature) ________________________________

ADDRESS

PHONE _______________________ Email address ________________________________


**Exam Format:**

- There shall be a closed-book morning session of the exam from 9:00 a.m. to 12:00 noon that consists of three sets of questions for each student, one set for each of the three areas of specialization that were chosen by the student. The questions shall address fundamental concepts in the areas of specialization. No materials other than writing instruments and a student I.D. card shall be permitted. The GCC will proctor the exam and provide paper and calculators.

- There shall be an open-book afternoon session of the exam from 2:00 p.m. to 5:00 p.m. that consists of three sets of questions for each student, one set for each of the three areas of specialization that were chosen by the student. The questions shall address advanced concepts in the areas of specialization. Students shall be permitted to bring reference books suggested by the faculty. The reference books will be checked for inappropriate contents by the GCC. No other materials than writing instruments and a student I.D. card shall be permitted. The GCC will provide paper and calculators.