Application for the Ph.D. Screening Examination for Electrical and Computer Engineering

I request to take the Ph.D. Screening Examination during the Fall Quarter of 2015. I elect to take one major oral examination in my intended area of specialization and one minor area of examination, which I have indicated below by placing a cross [X] in the respective boxes. I agree to take the examinations on the designated dates and will not fail to attend once the exam schedule is finalized. If any emergency arises that may prevent me from participating, I will promptly notify the Graduate Student Office. I understand that failure to attend the exams without notification or due cause may prevent me from being permitted to continue in the Ph.D. program.

Last Name, First Name

Perm Number

ECE Box Number

E-mail Address

Student Signature

Date

(Graduate) Grade Point Average __________

(3.3 minimum required)

Advisor

(PRINT ADVISOR’S NAME)

Areas of Examination: (Select one major which must be in the area of intended specialization and one minor.)

<table>
<thead>
<tr>
<th>Major Specialization Area</th>
<th>Minor Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Engineering (PLEASE SEE BACK OF FORM)...........................</td>
<td></td>
</tr>
<tr>
<td>Control Systems .................................................................</td>
<td></td>
</tr>
<tr>
<td>Signal Processing ...............................................................</td>
<td></td>
</tr>
<tr>
<td>Communications .................................................................</td>
<td></td>
</tr>
<tr>
<td>Electronics and Photonics (PLEASE SEE BACK OF FORM) ......................</td>
<td></td>
</tr>
</tbody>
</table>

Intended Area of Specialization (please circle one):  CCSP  CE  EP

Are you taking the Screening Exam in lieu of Comps to earn your MS degree? ___ Yes  ___ No

Is this your first ____ or second ____ attempt? If second, date of first attempt _______.

Return to the ECE Graduate Student Office by noon on Friday, August 14, 2015
Trailer 697, Room 101
Name: ____________________________________________

Ph.D. Screening Exam in Electronics and Photonics

☐ Check here if you are taking the screening exam for the second time.

Check the level on which you intend to take the E&P examination:

☐ Combined Major/Minor in E&P

Check five of the seven examination topics listed below with the following constraint: You must select at least one examination from each of the three areas A, B and C. The remaining two examinations may be chosen freely from the rest of the list.

☐ Major – Only in E&P

STATE YOUR MINOR EXAM FIELD: _________________________________

Check three of the seven examination topics listed below with the following constraints: At least two of the three exams must be from areas A, B and/or C; the third examination may be chosen freely from the rest of the list.

☐ Minor – Only in E&P

STATE YOUR MAJOR EXAM FIELD: _________________________________

Check any two of the seven examination topics listed below.

Areas and Topics:

Area A: Physics
☐ A1: Quantum Mechanics
☐ A2: Solid-State Physics

Area B: Electromagnetic Fields and Waves
☐ B1: General E&M Theory
☐ B2: Guided Waves, and Radiation

Area C: Devices
☐ C1: Electronic Devices
☐ C2: Photonic Devices

Area D: Circuits
☐ D1: High-Speed Analog Circuits

Ph.D. Screening Exam in Computer Engineering

The CE exam will have nine areas for both major and minor students. The following is a list of these nine areas. To take only CE as a major and minor exam, choose five out of the nine areas. To take CE as a major exam, choose three of the nine areas below and take a minor outside of CE and Computer Science. To take CE as a minor exam only, choose 2 out of the nine areas below.

☐ Major – Only in CE

STATE YOUR MINOR EXAM FIELD: _________________________________

☐ Minor – Only in CE

STATE YOUR MAJOR EXAM FIELD: _________________________________

☐ 1. Digital Design Fundamentals
☐ 2. Computer Architecture
☐ 3. Data Structures
☐ 4. Compilers and Operating Systems
☐ 5. VLSI and CMOS Design
☐ 6. Design Methodologies and Automation
☐ 7. Computer Networks and Distributed Systems
☐ 8. Hardware/Software Interface
☐ 9. Multimedia Systems