

Catalog of Postgraduate Programs and Curricula

Curriculum for PhD(ECE) (For students admitted in 2010-11)

Program Requirements for Doctor of Philosophy (PhD) Program in Electronic and Computer Engineering

Credits

To complete **at least 15 credits** (excluding ELEC 6900 *Independent Study*) of approved PG coursework, of which at least 9 in the area of Electronic and Computer Engineering.

Postgraduate Seminar

Full-time students must take ELEC 6950 *Departmental Seminar*.

Language Requirements

Full-time students must pass LANG 5001 *Postgraduate English for Academic Purposes*.

- (a) *The 1 credit earned from LANG 5001 cannot be counted toward the credit requirements.*
- (b) *Exemption from taking LANG 5001 may be granted by the Department Head and PG Coordinator.*

Qualifying Examination

To pass qualifying examination within 2 years after admission.

Research and PhD Thesis Examination

1. To pass the thesis proposal before the final thesis defense;
2. To conduct research and enroll in PhD 7990 *Doctoral Thesis Research*; and
3. To defend the PhD thesis successfully.

Concentration

Nanotechnology Concentration

In addition to the program requirements specified above, students who opt for the Nanotechnology concentration are required to:

- Take 1 NANO course*;
- Complete NANO 6010 *Advanced Topics in Nano Science and Technology* for 1 term; and
- Conduct research in nano area.

* *NANO 540 and NANO 5450 can be counted as ELEC elective courses in partial fulfillment of the 15-credit program requirement.*

Energy Technology Concentration

In addition for the program requirements specified above, students who opt for the Energy Technology concentration are required to:

- Take 1 ENEG course;
- Complete ENEG 6010 *Advanced Topics in Energy Technology* for 1 term; and
- Conduct research in energy area.