ECE Graduate Student 2018-2019 Guide

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(Text in cyan color is hyperlinked – click on it.)
Places to Regularly Visit

because the world is continually changing...
The Graduate School
http://graduate.auburn.edu

Visit HERE!
Clicking on “Current Students”...

http://graduate.auburn.edu/current-students/

Organized across 5 areas:
- Academics
- Assistantships
- Campus Resources
- Graduation
- Student Life
How do I measure my progress?

Go to graduate.auburn.edu ⇒ Current Students ⇒ Doctoral Studies Checklist . . . (fifth item on page)

Master's Studies Checklist

Doctoral Studies Checklist

Study BOTH of these regularly!
ECE Graduate Program homepage

http://www.eng.auburn.edu/ece/academics/graduate/index.html
Some Items Specific to ECE
Two Master degree options: No difference on the diploma

**Thesis**
- 30 credit hours total
- 4-6 credits “research/thesis”
- Typically 8 other courses
- At least 3 committee members

**Non-Thesis**
- 33 credit hours total
- All coursework, typically 11
- Can be completed in 3 semesters (fall, spring, summer)
- Can be completed online (off-campus)

*Typical time to completion: 1-1/2 years*
ECE Doctoral degree basic elements

- 60 credit hours beyond the Bachelor degree
  - > 30 graded (A, B, C) graduate credits
  - Some credits from Master degree can count
  - > 10 credits “research/dissertation” (ELEC-8990)
  - > 9 credits in a “minor” area
- At least 4 committee members, with one from “minor” area
- Three major examinations
  1. ECE PhD qualifying exam
  2. AU General Exam
  3. Final defense
ECE Ph.D. Qualifying Examination
Not on Graduate School checklist, but required by ECE!!

Visit ECE Graduate Program homepage
⇒ PhD Degree Requirements
⇒ Examinations

- Undergraduate level in four technical areas
- Twelve (12) problems offered, eight (8) submitted for grading
- Passing grade: 70%
- Must attempt within the first year. Maximum of two attempts.
- Offered only in Fall and Spring semesters
What should I do this week?
#1: Study Graduate School homepage

Especially . . .

Master's Studies Checklist  
Doctoral Studies Checklist
#2: Study ECE Graduate Program homepage

A. Your Degree Requirements (Master, Doctoral)

B. 2018 ECE Graduate Student Handbook

A wealth of details!
#3: Visit my advisor

No advisor yet? See Prof. Hung (ECE GPO).
#4: Register for courses

Login to AU Access ⇒ My Academics ⇒ Registration and Advising
#4: Register for courses – Important ECE points...

- Register online through day #5 of semester.
- To keep tuition waiver, ECE deadline is day #5 of semester.
- Days #5 through #15: Instructor consent + loss of finger
- Register as early as possible
  - Courses may become full or be cancelled
  - Bill does not have to be paid until day #8th of semester
- Research & Thesis hours (ELEC-8990)
  - Can self-register for 1 hour
  - Need more hours? Email Ms. Elizabeth Gowan desired TOTAL hours.

Fall 2018 Day #5 is Friday, Aug. 24!
#5: Start/update your ePortfolio

- **Personal website:** Showcases your learning and skills
- **Satisfies mandatory annual report** (ECE PhD students)
- **Resources:** Office of University Writing ePortfolio Project
  - “How to . . .” videos
  - Example ePortfolios
  - Personalized help at Miller Writing Center
  - **Student Workshop Series:** Monday and Tuesday afternoons, mid-September through October at the Library (six lessons, free).
- **A nice ECE example**
#6: Take Annual Conduct Policy Training

Mandatory for **ALL Graduate Assistants** (GRA, GTA, GA)!

Graduate School will soon contact you, but here is the online training video (just 32 minutes).
#7-A: Are you graduating soon (Master student)?

Visit the Graduate School page for Graduation. Main points are:

1. Submit your plan of study for approval, using DegreeWorks.
2. Apply for graduation with the Graduate School.

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Must do the above one semester **BEFORE** graduation term!
#7-B: Are you graduating soon (doctoral student)?

Visit the Graduate School page for Graduation. Main points are:

1. Submit your doctoral plan of study for approval, using DegreeWorks.
2. (Optional) ADD a non-thesis Master (MSNT) plan of study for approval.
3. Apply for graduation with the Graduate School.

Must do the above one semester BEFORE graduation term!

I can write the basic ideas, but perfecting the presentation takes so much time!

Consider hiring a professional editor . . . your professors do!

Talk to the GPO . . .
EMERGENCIES & Problems
Fire, safety, medical

1. Call **911**
   - any phone
   - emergency call box (blue or green light on top)

2. Stay on the phone, and give information:
   - Your name, phone number, and your location
   - Location of the emergency
   - Nature and extent of the emergency
Safety Resources

▶ AU Campus Safety & Security
▶ City of Auburn Public Safety
▶ Night Security Shuttle Service
  ▶ phone: 334-844-7400
  ▶ 6 p.m. – 7 a.m.
  ▶ on-campus locations only
Problems that are NOT emergencies

**Daytime:** Notify ECE main office, call 334-844-1800

**ANY time:** Call 334-844-HELP

Examples:
1. water leak
2. loss of electrical power
3. elevator not working
4. strange odor (e.g. gas)
Overloaded life?

▶ Do not despair – Ask for help!
▶ Know your DROP deadlines – Study the Academic Calendar!
▶ Be flexible – be open to changing directions.
Reviewing DROP deadlines...

<table>
<thead>
<tr>
<th>No penalty</th>
<th>Before day #5 of semester: Friday, Aug 24, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>$100 penalty, grade W</td>
<td>Days #5 through #15: Monday, Sep 10, 2018</td>
</tr>
<tr>
<td>No refund, grade W</td>
<td>After day #15 though “last business day before registration opens for next semester”: Friday, Nov 2, 2018</td>
</tr>
<tr>
<td>Grade WF = F</td>
<td>After Nov 3, 2018</td>
</tr>
</tbody>
</table>

**REMEMBER**

Grade W does not affect GPA, but Grades WF and F endanger academic standing!
9 Faculty Additions Last Year
Adil Bashir  
magnetic resonance spectroscopy, RF coil development, cardiac MRI, skeletal muscle metabolic imaging 
Broun 224
azb0117@auburn.edu

Jason Clark  
micro-, nano-scale phenomena, MEMS/NEMS, control, STEM education 
Broun 401
-Spring 2018-
jvclark@auburn.edu

Xiaowen Gong  
mobile social networks, crowdsourcing, cybersecurity 
Broun 217
xzg0017@auburn.edu
Ujjwal Guin
hardware security, supply chain security, cybersecurity, IoT
..........................
Broun 325
ujjwal.guinn@auburn.edu

Christopher Harris
design & verification of embedded & cyber-physical computing systems
..........................
Broun 302
cbharris7@gmail.com

Masoud Mahjouri-Samani
laser-assisted synthesis, processing, properties of nanomaterials and devices
..........................
Broun 421
m.mahjouri.s@gmail.com
Spencer Millican

design-for-test, electronic design automation, circuit encryption, 3D-integrated circuits

Broun 324
skmillican@gmail.com

Ed Muljadi

power systems, electric machines, power converters, renewable energy

-Spring 2018-
emuljadi@yahoo.com

Yin Sun

timely information updates, low-latency networks, stock-price prediction, tracking, control, VR gaming

Broun 213
sunyin02@gmail.com
Two personal thoughts ... 

1. You are more than mind and body ... grow spiritually

2. Hone your communication skills
   - Take every opportunity to speak
   - Use \LaTeX{} (thesis and doctoral students)
Questions?

Come see me!

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