Virginia Tech ECE: Radically Expanding Pathways in PFE
"If we get this grant, my department is going to f****g hate me . . ."

—field notes, fall 2015
Third Year

FIRST SEMESTER

EE 3105: EM Fields I
EE 3204: Electronics II
EE 3274: Lab II
EE 3305: Power I
EE 3714: Circuits, Signals, Systems
Stat 4714: Statistics/Probability or Math 4554: Numerical Analysis
Humanities Elective

SECOND SEMESTER

EE 3106: EM Fields II
EE 3306: Power II
EE 3354: Lab III
EE 3604: Communication Systems
Math 4554: Vector Analysis
Engl 3764: Technical Writing
Humanities Elective

Junior Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>CR</th>
<th>Prereq</th>
<th>Coreq</th>
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<tr>
<td>ECE 3004</td>
<td>AC Circuit Analysis</td>
<td>3C</td>
<td>2704</td>
<td>3074</td>
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<td>ECE 3074</td>
<td>AC Circ Analy Lab</td>
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<td>2074</td>
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<td>Electromag Fields</td>
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<td>ECE 3704</td>
<td>Cont &amp; Disc Sys</td>
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Spring Semester

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<td>Technical Writing</td>
<td>3C</td>
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<td>CLE Area 6</td>
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What's missing?

- RIGOR (not necessarily mathematical)
- Real-time vs. Pseudo Real-time
- Effect of temperature and time on electronics (ICs, Rs, Rs, Rs, ...)
- Linear
- References + Regulators
ECE Faculty Honors

NATIONAL ACADEMY OF ENGINEERING

IEEE FELLOWS

R. Michael Buehrer  
For contributions to wideband signal processing in communications and geolocation.

Jung-Min (Jerry) Park  
For contributions to dynamic spectrum sharing, cognitive radio networks, and security issues.

Theresa Mayer  
For contributions to nano materials integration and directed assembly.

Luiz Da Silva  
For contributions to cognitive networks and resource management for wireless networks.

Lamine Mili  

Engineering researcher honored at White House for advancing e-textiles

27, 2006
Virginia Tech preps for largest freshman class in school history, faces housing crunch

By Robby Korth robby.korth@roanoke.com (540) 381-1679  Jul 15, 2017  📣 (5)
Design Exp. 6 hours

Primary Area
4 classes + 2 labs (15 hours)

2nd Area
6 classes + 1 lab 10 hours

14 hours Elect.

Base 21 credits ~ 7 classes

Intro to Prog. (3) - 1574

Intro to Data Struct/Alg - 2574 (3)

Math for ECE - (3)

Intro to Circuits (3064) (3)
Virginia Tech preps for largest freshman class in school history, faces housing crunch

By Robby Korth robby.korth@roanoke.com (540) 381-1679 Jul 15, 2017 5

[Image of people]