

Analog Alliance

Baseband & Analog Circuit Design

Example outcomes gained by taking this track would include joining groups that design Analog to Digital Converters, Switch Capacitor filters, Sensor Signal Conditioning circuits etc. This area overlaps Wired Communications Circuit Design. Local employers would include **Analog Devices, Texas Instruments, Linear Technology, Intersil, IBM, Triad Semiconductor, and RF Microdevices**. Employers outside of NC that recruit at NCSU include IBM, Analog Devices, Maxim, Qualcomm, Broadcom, Texas Instruments, IDT, Northrop Grumman, and Cirrus. Courses central to obtaining this outcome are the following:

- ECE 546 VLSI Design
- ECE 511 Analog Electronics
- ECE 703 Instrumentation Circuits
- ECE 792D Data Converters
- ECE 712 Analog VLSI
- ECE 792X Integrated Circuit Design for Wireless Communications

Sample MS Plan of Work

These plans of work are suggestions only. Feel free to seek other advice or to structure your own curricula. Please note that the actual courses taught are constantly changing, and these might be out of date. These are written assuming you are a full time student taking 10 courses over three semesters. You might choose to not overload in Spring, but take one last course in Spring after this.

Analog Integrated Circuit Design, Including RF, Power, Digital Transceivers, and Baseband					
Fall		Spring		Fall	
ECE 511	ANA	ECE 792X	A/RF	ECE 703	ANA
ECE 546	DIG	ECE 532	RF/M	ECE 792D	ANA
ECE 549	RF/M	ECE 757	EDV	ECE 733	DIG
ECE 515	DSP	ECE 534	PWR	ECE 719	RF/M

Associated Faculty

Dr. Kevin Gard

Dr. Christal Gordon

Dr. Maysam Ghovanloo

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