

## Analog Alliance

### Design Automation

Example outcomes gained by taking this track would include joining groups the implement CAD tools for the design of integrated circuits, or work as an Applications Engineer for such a company. Local employers looking for skills in this area include Cadence Design Systems, Mentor Graphics and Synopsys. In addition, other companies have internal CAD Departments (e.g. IBM, IDT) requiring these skills. Courses central to obtaining this outcome are the following:

- ECE 546 VLSI Design
- ECE 520 Digital ASIC Design
- CSC 505 Design and Analysis of Algorithms
- ECE 718 Computer Aided Circuit Analysis
- ECE 761 Design Automation for VLSI
- ECE 544 Design of Electronic Packaging and Interconnect (local CAD jobs have a strong interconnect focus)
- A course with an intensive programming experience, e.g. ECE 517 Object Orientated Languages and Systems, or ECE 521 Computer Design and Technology

Additional courses you should consider include the following:

- ECE 510 Software Engineering

Design Automation					
Fall		Spring		Fall	
ECE 546	DIG	ECE 520	DIG	ECE 517	SFT
ECE 511	ANA	ECE 521	DIG	CSC 510	SFT
CSC 505	SFT	ECE 761	CAD	ECE 745	DIG
		ECE 718	CAD		

### Associated Faculty

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