



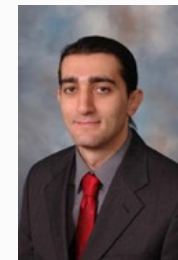
Drexel University is a Leader in VLSI Education

- Eight (8) Professors
- More courses than peer-institutions
- Job placement and internships

Professors



1. **Surya Basavaiah, Teaching Professor**
 - 33 years experience at IBM T. J. Watson Research Center
 - Semiconductor devices, VLSI technology
2. **Anup Kumar Das (joining Fall 2017!), Assistant Professor**
 - Neuromorphic Computing, Multi-processor system-on-chip (MPSoC) design
 - Previous positions at IMEC, ST Micro, LSI systems
3. **Afshin Daryoush, Professor**
 - RF IC circuits, microware photonics, satellite communications, biomedical engineering applications
 - IEEE Fellow
 - Director of RF and Microwave Research Lab
4. **Lunal Khuon, Associate Clinical Professor and Director of Research in Engineering Technology**
 - Radio frequency IC and Bio-inspired IC, neural interfaces
 - Previous positions at TI, IBM T. J. Watson Research Center, Motorola, Hughes Electronics
5. **Prawat Nagvajara, Associate Professor**
 - FPGA design, VHDL, Reconfigurable computing
6. **Ioannis Savidis, Assistant Professor**
 - 3-D IC circuits, Hardware Security, digital and mixed-signal design
 - Previous positions at Freescale, IBM T. J. Watson Research Center
 - Director of Integrated Circuit and Electronics Design and Analysis Lab
7. **Baris Taskin, Professor**
 - Electronic Design Automation (EDA), Networks-on-Chip (NoC) design, ASIC design
 - Director of Computer Engineering Program at Drexel ECE
 - Director of Drexel VLSI and Architecture Lab
8. **Lazar Trachtenberg, Professor**
 - Fault-tolerant and secure computing machines



Courses- Core VLSI/ASIC/FPGA



- Custom VLSI Design (including layout, simulation, system design with Cadence):

- ECE-C571 Introduction to VLSI Design (Savidis)
- ECE-C572 Custom VLSI Design I (Savidis)
- ECE-C573 Custom VLSI Design II (Savidis)

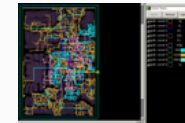
cadence



SYNOPSYS®

- ASIC Design (including physical design tools with Synopsys and Cadence):

- ECE-C574 ASIC Design I (Taskin)
- ECE-C575 ASIC Design II (Taskin)



Mentor
Graphics®

- Hardware Design and FPGA (including Altera, Xilinx, Mentor Graphics):

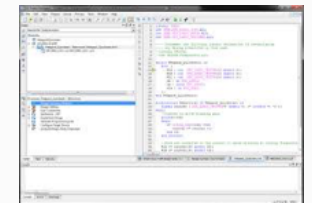
- ECE-C661 Digital System Design (Nagvajara)
- ECE-C662 Design with FGPA (Nagvajara)

XILINX®

ALTERA
now part of Intel

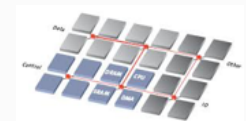
- Electronic Design Automation (building CAD tools with programming)

- ECE-C671 EDA for VLSI I (Taskin)
- ECE-C672 EDA for VLSI II (Taskin)
- ECE-C673 Deep Sub-Micron Design (Taskin)
- ECE-C513 Design for Testability (Trachtenberg)



- Specialized VLSI/ASIC courses:

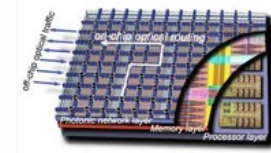
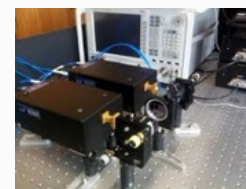
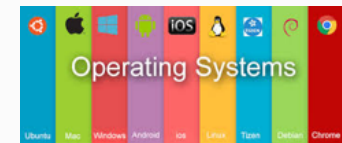
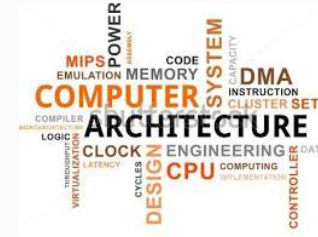
- ECE-C690 Hardware Security and Trust (Savidis – new in 2017!)
- ECE-C690 Networks-on-Chip (Taskin)
- ECE-C690 Neuromorphic Computing (Das – upcoming in 2018)



Courses- RFIC, Architecture, and More



- Computer Architecture
 - ECE-C621 High Performance Computer Architecture (Das)
 - ECE-C623 Advanced Topics in Computer Architecture (Das)
- Parallel Computer Architecture (including CUDA for GPU programming)
 - ECE-C622 Parallel Computer Architecture (Kandasamy)
- Dependable Computing
 - ECE-C520 Dependable Computing (Kandasamy)
 - CS575 Dependable Software Systems
 - CS 642 Advanced Operating Systems
- Radio Frequency IC and Analog Design
 - ECE-E619 Radio Frequency Integrated Circuit Design (Daryoush)
 - ECE-E622 Microfabrication Technology (Daryoush)
 - ECE-E520 Solid-State Electronics (Basavaiah, Nabet)
 - ECE-E522 Photonic Devices (Nabet)
 - ET 690 Analog and Mixed Signal Design (Khuon)
- THz electronics and Nano-electronics
 - ECE-E821 Nanoelectronics (Nabet, Daryoush)
 - ECE-E811 Microware and THz Photonics I (Daryoush)
 - ECE-E812 Microware and THz Photonics II (Daryoush)
 - ECE-E813 Microware and THz Photonics III (Daryoush)
- Data Structures and Programming
 - CS620 Advanced Data Structure and Algorithms
 - CS571 Advanced Programming Techniques



Internet Search Results



Google MS in VLSI

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About 545,000 results (0.80 seconds)

Universities for **MS in VLSI** in USA. **VLSI** (Very-large-scale integration) is the process of integrating hundreds of thousands of components on a single silicon chip. ... **VLSI** is usually offered as a specialization in Electrical Engineering(**MS in EE**) or Electrical and Computer Engineering(**MS in ECE**) majors in US Schools.

[Universities for MS in VLSI in USA - Msinus](http://www.msinus.com/content/universities-ms-vlsi-396/)
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VLSI (Very-large-scale integration) is the process of integrating hundreds of thousands of components on a single silicon chip.

Master of Science in VLSI (MS in VLSI) is a most demanding major offered by US Schools. Students from Electrical and Electronics Engineering (EEE), Electronics and Communications Engineering (ECE) from India can opt this major.

VLSI is usually offered as a specialization in Electrical Engineering(MS in EE) or Electrical and Computer Engineering(MS in ECE) majors in US Schools.

Here is a list of US Schools offering MS in VLSI course and PhD in VLSI in USA. MIT and Stanford are on the top list for VLSI Program.

TOP Universities for MS in VLSI in USA

1	Arizona State University
2	Boston University
3	Carnegie Mellon University
4	Case Western Reserve University
5	Clemson University
6	Columbia University
7	Concordia University
8	Drexel University
9	Duke University

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Top link on Google for “MS in VLSI” search lists

Drexel University

In the list¹ for top universities for M.S. in VLSI in USA

¹ Although not comprehensive, list provides an indication of Drexel’s strength in VLSI

Sample Job Placement



	Student, degree, position	Placement
	Josh L., BS, full-time	AMD
	Eric M., BS, full-time	IBM
international	Adrisha C., MS, full-time	Mentor Graphics
international	Sneha N., MS, full-time	Intel
international	Sharat S., MS, internship, full-time	Agilent, Samsung
international	Divya P., PhD, internship	IBM (2)
	Kyle J., PhD, internship	Synopsys
international	Ahmet S., MS, internship	Synopsys
international	Xioami M., MS, full-time	Sun/Oracle
international	Swetha G., MS, internship	IBM
international	Ying T., PhD, full-time	Apple
international	Vinayak H., PhD, full-time	Intel
international	Ankit M., PhD, internship, full-time	Intel, Intel
international	Rizwana B., PhD, full-time	Intel
international	Jianchao L., PhD, full-time	LinkedIn
international	Isuru D., MS, internship, full-time	Nvidia, Nvidia
	Karthik S., PhD, internship	ARM
	George S., BS, full-time	Nvidia

Sample MS VLSI Program Study



Fall 2017	Winter 2018	Spring 2018	Summer 2018
Intro to VLSI	Custom VLSI I	Custom VLSI II	Internship
Data Structures and Algs	ASIC Design I	ASIC Design II	
Computer Architecture I	Computer Architecture II	Computer Architecture III	

Fall 2018	Winter 2019	Spring 2019	Summer 2019
Internship	EDA I	EDA II	MS degree
	Hardware Security	Network-On-Chip	
	Design with FPGA	Parallel Computer Architecture	