

**CMPE - MS**  
**Selected Curriculum for**

**Interest in VLSI**  
***Advising Sheet***

**Computer Engineering master's students are required to take one course from **each** of the four groups listed below.**

**Group "A"**

- CSCE 5510 Wireless Communications
- CSCE 5520 Wireless Networks and Protocols
- CSCE 5580 Computer Networks

**Group "B"**

- CSCE 5160 Parallel Processing and Algorithms
- CSCE 5610 Computer System Architecture
- CSCE 5640 Operating System Design

**Group "C"**

- CSCE 5440 Real-Time Software Development
- CSCE 5612 (5933) Embedded Hardware & Software Design
- CSCE 5620 Real-Time Operating Systems

**Group "D"**

- CSCE 5730 Digital CMOS VLSI Design
- CSCE 5740 Topics in Modern Electronic System Design
- CSCE 5760 Design for Fault Tolerance

***Suggested Courses:***

<input type="checkbox"/>	<b>CSCE 5510</b>	Wireless Communications	3 sch
<input type="checkbox"/>	<b>CSCE 5520</b>	Wireless Networks and Protocols	3 sch
<input type="checkbox"/>	<b>CSCE 5540</b>	Introduction to Sensor Networks	3 sch
<input type="checkbox"/>	<b>CSCE 5580</b>	Computer Networks	3 sch
<input type="checkbox"/>	<b>CSCE 5610</b>	Computer System Architecture	3 sch
<input type="checkbox"/>	<b>CSCE 5612</b>	Embedded Hardware and Software Design	3 sch
<input type="checkbox"/>	<b>CSCE 5615</b>	Networks-on-Chip	3 sch
<input type="checkbox"/>	<b>CSCE 5620</b>	Real-Time Operating Systems	3 sch
<input type="checkbox"/>	<b>CSCE 5640</b>	Operating System Design	3 sch
<input type="checkbox"/>	<b>CSCE 5730</b>	Digital CMOS VLSI Design	3 sch
<input type="checkbox"/>	<b>CSCE 5740</b>	Topics in Modern Electronic System Design	3 sch
<input type="checkbox"/>	<b>CSCE 5760</b>	Design for Fault Tolerance	3 sch
<input type="checkbox"/>	<b>CSCE 6731</b>	Advanced Topics in VLSI Systems	3 sch

***Major Professors Comments/Suggestions:***

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- For MS with thesis, the total number of hours required is 30.
- For MS without thesis, the total number of hours required is 33.
- To continue in good standing, a student must maintain a 3.0 GPA overall.
- **Only one unorganized course (not less than 3 sch), and up to 2 Internship courses (max 2 each) may be placed on the MS degree plan. All outside courses must have prior approval by the student's major professor with a justification written on the back of the degree plan.**