

MS Computer Engineering Computer Architecture

MS Degree Requirements

- ECE 6710 Digital VLSI and ECE 6810 Computer Architecture
- 18+ hours of ECE Courses at the 6000- or 7000- level
- # of CE Restricted Elective List Courses based on Option
 - Coursework (4 Electives) | Project (3 Electives)
- 30+ hours of graduate coursework
- Final Exam Requirement Fulfilled

This is a sample MS Program of Study for a Computer Engineering student that meets the requirements for both the Coursework and Project option. Students who choose a thesis should meet with a graduate advisor to create an individualized plan.

Other Recommended Courses

Fall Semester

ECE 6680 – Elec. Forensic Eng. & Failure Analysis (3.0) *Odd Years*
 ECE 6960 – Sp. Topic: Adv. Embedded Systems (3.0) *Periodic*

Spring Semester

ECE 6770 – Advanced Digital VLSI (4.0) *Pre-Req. 6710*
 ECE 6910 – Graduate Seminar (1.0) *Spring*
 CS 6110 – Software Verification (3.0) ★
 CS 6460 – Operating Systems (3.0) ★
 CS 7937 – Architecture / VLSI Seminar (1.0)

Final Exam Options

Coursework: Students must receive a B or higher in one of the approved courses to meet the Final Exam Requirement for the MS Non-Thesis degree option.

Project: Up to 6 credits of ECE 6950 – Special Study can count for industry or on-campus research. Students may enroll in ECE 6950 once or more times during Spring, Summer, and/or Fall semesters.

Year 1		Optional	Year 2
Fall	Spring	Summer	Fall
ECE 6710 Digital VLSI 4.0	★ ECE 6780 Embedded System Design 4.0	ECE 6950 Special Study (Project Option Only) 3-6.0	ECE 6900 Graduate Seminar I 1.0
ECE 6810 Computer Architecture 3.0	★ ECE 7810 (3.0) Adv. Computer Arch. ★ CS 6235 (3.0) Odd Prog. Many-Core Arch		ECE 6773 (3.0) Solid State Memory --- ECE 6960 (3.0) Odd Adv. Machine Learning
★ CS 6350 Machine Learning 3.0 Fall & Spring	ECE 6250 Intro to Quantum Computers 3.0		★ CS 6150 Advanced Algorithms 3.0
			★ CS 6480 Advanced Computer Networks 3.0
10 Credits			10 Credits
			Total Credits: 30
Required	Advanced ECE	Allied	★ Restricted Elective
			Final Exam Option

MS Computer Engineering

Digital Design

MS Degree Requirements

- ECE 6710 Digital VLSI and ECE 6810 Computer Architecture
- 18+ hours of ECE Courses at the 6000- or 7000- level
- # of CE Restricted Elective List Courses based on Option
 - Coursework (4 Electives) | Project (3 Electives)
- 30+ hours of graduate coursework
- Final Exam Requirement Fulfilled

This is a sample MS Program of Study for a Computer Engineering student that meets the requirements for both the Coursework and Project option. Students who choose a thesis should meet with a graduate advisor to create an individualized plan.

Other Recommended Courses

Fall Semester

ECE 6680 – Elec. Forensic Eng. & Failure Analysis (3.0) *Odd Years*
 ECE 6960 – Sp. Topic: Adv. Embedded Systems (3.0) *Periodic*
 CS 6350 – Machine Learning (3.0) *Fall & Spring*

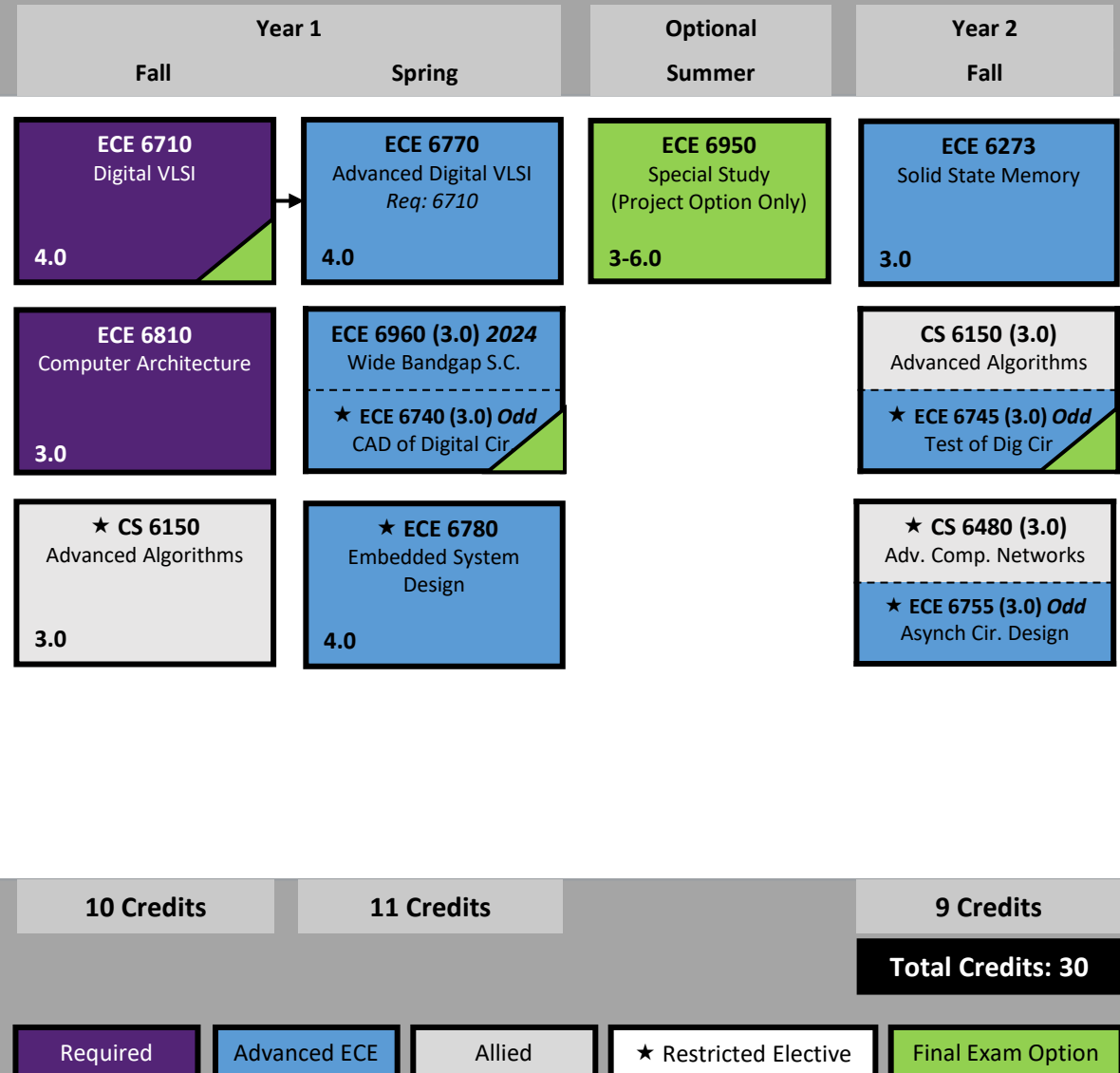
Spring Semester

CS 7937 – Architecture / VLSI Seminar (1.0)
 CS 6110 – Software Verification (3.0)
 CS 6460 – Operating Systems (3.0)
 CS 6235 – Parallel Prog. for Man-Core Arch. (3.0) *Odd Years*

Final Exam Options

Coursework: Students must receive a B or higher in one of the approved courses to meet the Final Exam Requirement for the MS Non-Thesis degree option.

Project: Up to 6 credits of ECE 6950 – Special Study can count for industry or on-campus research. Students may enroll in ECE 6950 once or more times during Spring, Summer, and/or Fall semesters.



MS Computer Engineering Communications / DSP

MS Degree Requirements

- ECE 6710 Digital VLSI and ECE 6810 Computer Architecture
- 18+ hours of ECE Courses at the 6000- or 7000- level
- # of CE Restricted Elective List Courses based on Option
 - Coursework (4 Electives) | Project (3 Electives)
- 30+ hours of graduate coursework
- Final Exam Requirement Fulfilled

This is a sample MS Program of Study for a Computer Engineering student that meets the requirements for both the Coursework and Project option. Students who choose a thesis should meet with a graduate advisor to create an individualized plan.

Other Recommended Courses

Fall Semester

ECE 6680 – Elec. Forensic Eng. & Failure Analysis (3.0) *Odd Years*
 ECE 6960 – Sp. Topic: Adv. Embedded Systems (3.0) *Periodic*
 CS 6350 – Machine Learning (3.0) *Fall & Spring*
 CS 6150 – Advanced Algorithms (3.0)

Spring Semester

ECE 6770 – Advanced VLSI Design (4.0)
 CS 6235 – Parallel Prog. for Many-Core Arch. (3.0) *Odd Years*
 CS 6460 – Operating Systems (3.0)

Final Exam Options

Coursework: Students must receive a B or higher in one of the approved courses to meet the Final Exam Requirement for the MS Non-Thesis degree option.

Project: Up to 6 credits of ECE 6950 – Special Study can count for industry or on-campus research. Students may enroll in ECE 6950 once or more times during Spring, Summer, and/or Fall semesters.

