

**MS Degree Plan  
Computer Systems Engineering and  
Instrumentation**

**Name:** \_\_\_\_\_

**Core Courses (Select 4)**

Course	Title	Offered	Date Scheduled	Date Taken
PHYS 521	Comp. Arch.	Spring		
CPSD 501	Software Syst. Des.	Fall		
CPSC 502	Communications I	Summer		
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\* Any of the following: PHYS 501, PHYS 503, PHYS 504, PHYS 541

**Concentration Courses (Choose 4 courses from the following. At least 2 must be 600 level)**

Course	Title	Offered	Date Scheduled	Date Taken
PHYS 503	Data Acquisitn & Instrum.	Fall		
PHYS 522	Microprocessors	Spring		
PHYS 621	Digital Signal Processing	Even Fall		
CPSC 525	Obj Orient. Prog & Desn	Spring		
CPSC 550	Distributed Operating Syst.	Spring		
CPSC 611	Communications II	Fall		
CPSC 621	Parallel Processors	Odd Spring		

**Thesis Option Courses:** Offered at any time. Once you start your thesis you must take at least one hour of thesis each semester (not counting summer). You must take at total of at least 3 hours of thesis although you may take more.

Course	Title	Hours	Date Scheduled	Date Taken
CPSC 619 or PHYS 629	Design (prethesis)	3		
PCSE 699	Thesis			

**Non-thesis Option Courses:** Any 4 courses from the MSAPCS program.

Course	Title	Date Scheduled	Date Taken

## MSAPCS COURSES

*This list is tentative.*

Course	Title	Offered
CPSC 501	Software System Design	Fall
CPSC 502	Communications I	Summer
CPSC 510	Artificial Intelligence I	Fall
CPSC 521	Computer Architecture	Spring
CPSC 525	Obj Orient. Prog & Desn	Spring
CPSC 550	Distributed Operating Syst.	Spring
CPSC 560	Intro to Compilers	Spring
CPSC 570	Theoretical Comp. Sci	Fall
CPSC 585	Multimedia	Fall
CPSC 611	Communications II	Fall
CPSC 621	Parallel Processors	Odd Spring
CPSC 642	Artificial Intelligence II	Even Spring
CPSC 595	Advanced Topics	As Needed
CPSC 599	Independent Study	As Needed
CPSC 619	Design (prethesis)	Any
CPSC 699	Thesis	Any
MATH 580	Advanced Num. Analysis	As Needed
MATH 680	Numerical Methods	As Needed
PHYS 501	Dynamical Systems	Fall
PHYS 502	Quantum Physics	Even Fall
PHYS 503	Data Acquisitn & Instrum.	Fall
PHYS 504	Electromagnetic Theory	Even Spring
PHYS 506	Thermo & Stat. Mechanics	Spring
PHYS 521	Comp Arch (CPSC 521)	Spring
PHYS 522	Microprocessors	Spring
PHYS 523	Comp Arch (1 hour)	Spring
PHYS 524	Microprocessors (1 hour)	Spring
PHYS 531	Optics	Odd Fall
PHYS 541	Modeling and Simulation	Odd Spring
PHYS 621	Digital Signal Processing	Even Fall
PHYS 631	Physics of Solids	Odd Fall
PHYS 632	Optoelectronic Materials	As Needed
PHYS 634	Superconducting Materials	As Needed
PHYS 595	Advanced Topics	As Needed
PHYS 599	Independent Study	As Needed
PHYS 629	Design (prethesis)	Any
PHYS 639	Design (prethesis)	Any
PHYS 649	Design (prethesis)	Any
PHYS 699	Thesis	Any