Computer Science, MS

Master of Science in Computer Science Degree Program Requirements					
Computer Science Core Requirements					
COMP 5300	Research Methods ar	nd Graduate S	Seminar		3
COMP 5311	Fundamentals and Co	oncepts of Pr	ogramming Languages		3
COMP 5312	Advanced Computer	Architecture			3
COMP 5313	Advanced Operating	Systems			3
COMP 5314	Advanced Database I	Management	System		3
COMP 5315	Design and Analysis	of Algorithms			3
COMP 5342	Software Engineering	Processes			3
Concentration (Select one from be	elow):				15
Thesis Concentration:					
COMP 5690	Masters Thesis				
Three Electives (Select 9 hours fr	om the approved Comp	uter Science	Electives)		
Non-Thesis Concentration:					
COMP 5391	Masters Project				
Four Electives (Select 12 hours fr	om the approved Comp	uter Science	Electives)		
Total Hours					36
General Computer Scient	ence Flectives				
Sometime Company					
COMP 5316	Artificial Intelligence				3
COMP 5317	Computer Vision				3
COMP 5324	Distributed Computing	_	-		3
COMP 5326	Machine Learning (Ne	ewly approve	d new course (Machine Learning))		3
COMP 5327	Data Mining				3
COMP 5328	Natural Language Pro	ocessing			3
COMP 5329	Text Mining				3
COMP 5332	Computer and Netwo	rk Security			3
COMP 5389	Applied Research				3
Master of Science in Computer Science Degree Sequence					
First Year					
Fall - Semester 1		Hours	Spring - Semester 2	Hours	
COMP 5311			3 COMP 5300		3
COMP 5312			3 COMP 5313		3
COMP 5314			3 COMP 5315		3
Total			9 Total		9
Total Hours: 18					
Second Year					
Fall - Semester 1		Hours	Spring - Semester 2	Hours	
COMP 5342			3 Three CS Electives (Thesis Track) or COMP 5391 and Two CS Electives (Non-Thesis Track)		9
COMP 5690			6		
or Two CS Electives (Non- Theseis Track)					
Total			9 Total		9
Total Hours: 18					

Name Unit

Total Semester Credit Hours: 36

Marketable Skills

Marketable skills, as defined by the Texas Higher Education Coordinating Board's 60x30TX Plan (http://www.60x30tx.com/), include interpersonal, cognitive, and applied skill areas, are valued by employers, and can be either primary or complementary to a major. Marketable skills are acquired by students through education, including curricular, co-curricular, and extracurricular activities.

MS Computer Science

Degree Skills

- 1. Understand the subjects of given computing practice and identify current techniques and skills needed. Be skillful to apply the current computing tools to solve the problem through design and implementation
- 2. Ability to identify new techniques and skills needed for solving the problem. Are also able to earn and apply the latest computing tools to get solutions through design and implementation
- 3. Ability to resent methodologies and write technical reports following professional templates by citing the data sources