

Texas A&M University - San Antonio
Master of Computer Science, 2019-2020

Student		J#:	
Semester of Entry	Catalog 2019-2020	Degree	MS Major Computer Science
Admission Status		Conditions	
Phone Number		Email	

MS DEGREE REQUIREMENTS (36 SCH)

1. 12 Semester Credit hours of Required Graduate Computer Science Courses

Course	Description	Grade	Semester	University
CSCI 5304	Database Systems			
CSCI 5306	Computer Networks			
CSCI 5362	Operating Systems			
CSCI 5343	Algorithms			

2. 12 Semester Credit hours of Graduate Electives in Cyber Security Courses

Course	Description	Grade	Semester	University
CSCI 5321	Information Assurance and Risk Management			
CSCI 5323	Cryptography and Secure Communication			
CSCI 5326	Security in Emerging Technologies			
CSCI 5327	Information Security			

3. 9 Semester Credit hours of Free Elective Courses in CS or CIS

Course	Description	Grade	Semester	University
CSCI 5313	Artificial Intelligence			
CSCI 5345	Mobile Applications Development II			
CISA 5334	Business Process Integration			
CISA 5340	Systems Analysis and Design			
CISA 5335	ABAP SAP Programming			
CSCI 5315	Big Data Analytics			
CSCI 5372	Cloud Computing			
CSCI 5393	Special Topics in Computer Science			

4. 3 Semester Credit hours of Graduate Seminar Course

Course	Description	Grade	Semester	University
**CSCI 5391	Graduate Seminar			

Total SCH 36 ***To be taken during the last semester with the approval of the graduate advisor.*

Two-Year Master of Computer Science Degree Program (Cybersecurity Track)

1 st Year					
Fall Semester			Spring Semester		
Prefix and Number	Course Name	SCH	Prefix and Number	Course Name	SCH
CSCI 5304	Database Systems	3	CSCI 5362	Operating Systems	3
CSCI 5306	Computer Networks	3	CSCI 5343	Algorithms	3
CSCI 5327	Information Security	3	CSCI 5323	Cryptography and Secure Communication	3
		9			9

2 nd Year					
Fall Semester			Spring Semester		
Prefix and Number	Course Name	SCH	Prefix and Number	Course Name	SCH
CSCI 5321	Info Assurance and Risk Mgmt	3	CSCI 5326	Security in Emerging Techs	3
CSCI 5315	Big Data Analytics	3	CSCI 5313	Artificial Intelligence	3
CSCI 5372	Cloud Computing	3	*CSCI 5391	Graduate Seminar	3
		9			9

Total SCH 36 **To be taken during the last semester with the approval of the graduate advisor.*

Master of Computer Science Tracks

Prefix and Number	Required Core Courses	SCH
CSCI 5304	Database Systems	3
CSCI 5306	Computer Networks	3
CSCI 5362	Operating Systems	3
CSCI 5343	Algorithms	3
Total		12

Prefix and Number	Prescribed Elective Courses – Software Applications	SCH
CSCI 5353	Secure Software Development	3
CSCI 5325	Mobile Applications Development I	3
CSCI 5316	Software Engineering	3
CSCI 5366	Software Testing and Quality Assurance	3
Total		12

Prefix and Number	Prescribed Elective Courses – Cyber Security	SCH
CSCI 5321	Information Assurance and Risk Management	3
CSCI 5323	Cryptography and Secure Communication	3
CSCI 5326	Security in Emerging Technologies	3
CSCI 5327	Information Security	3
Total		12

Prefix and Number	Prescribed Elective Courses – Enterprise Systems	SCH
CSCI 5311	Software Project Management	3
CSCI 5320	Decision Support Systems	3
CSCI 5331	Enterprise Resource Planning	3
CSCI 5332	Business Intelligence and Data Mining	3
Total		12

Prefix and Number	Free Elective Courses (in addition to the prescribed courses)	SCH
CSCI 5313	Artificial Intelligence	3
CSCI 5345	Mobile Applications Development II	3
CISA 5334	Business Process Integration	3
CISA 5340	Systems Analysis and Design	3
CISA 5335	ABAP SAP Programming	3
CSCI 5315	Big Data Analytics	3
CSCI 5372	Cloud Computing	3
CSCI 5393	Special Topics in Computer Science	3

Prefix and Number	Courses	SCH
CSCI 5391	Graduate Seminar	3
CSCI 5395	Thesis	3