Master of Science in Computer Science

SOUTHERN
ADVENTIST UNIVERSITY
Graduate Studies

Computer Science Core Courses — 12

Complete the following four courses:

CPTR 521	Advanced Databases (Winter)	3
CPTR 531	Algorithms (Fall, Even)	3
CPTR 571	System Software and Architecture (Fall, Odd)	3
CPTR 551	Parallel and Distributed Computing (Winter, Odd)	3

Certificate Courses — 12

Select any four of the following courses:

Cyber Security Certificate

Prerequisite: One year of programming or CPTR 502

CPTR 534	Advanced Network and Server Admin. (Winter, Even)	3
CPTR 544	Offensive Cyber Security (Fall)	3
CPTR 545	Defensive Cyber Security (Winter)	3
CPTR 554	Cyber Forensics (Fall)	3

Data Analytics Certificate

Prerequisites: Undergraduate statistic course (equivalent to MATH 215)
            One year of programming or CPTR 502

CPTR 512	Programming in Data Analytics (Fall) [8 Week Course]	3
CPTR 519	Databases and Data Warehouses (Fall) [8 Week Course]	3
CPTR 524	Data Mining and Analytics (Winter) [8 Week Course]	3
CPTR 528	Data Visualization (Winter) [8 Week Course]	3

Web Development Certificate

Prerequisite: One year of programming or CPTR 502

CPTR 556	Front-end Web Development (Fall)	3
CPTR 526	User Experience (Winter)	3
CPTR 546	Web Services (Winter)	3
CPTR 519	Databases and Data Warehouses (Fall) [8 Week Course]	3
OR CPTR 535	Mobile Application Development (Fall)	

Additional Required Courses — 9

CPTR 575	Issues in Computer Science and Religion (Fall)	3
OR CPTR 598	Project (Summer, Fall, & Winter)	6
CPTR 599	Thesis (Summer, Fall, & Winter)	6

Total Hours — 33