Master of Science in Computer Science

SOUTHERN
ADVENTIST UNIVERSITY
Graduate and Professional Studies

Computer Science Core Courses   12

Select four of the following courses:

CPTR 521	Advanced Databases	3
CPTR 531	Algorithms	3
CPTR 571	System Software and Architecture	3
CPTR 551	Parallel and Distributed Computing	3
CPTR 555	Advanced Computer Architecture	3

Certificate Courses   12

Select one of three certificates:

Cyber Security Certificate

Prerequisite: One year of programming or CPTR 502

CPTR 534	Advanced Network and Server Administration	3
CPTR 544	Offensive Cyber Security	3
CPTR 545	Defensive Cyber Security	3
CPTR 554	Cyber Forensics	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	3
CPTR 519	Databases and Data Warehouses	3
CPTR 524	Data Mining and Analytics	3
CPTR 528	Data Visualization	3

Web Development Certificate

Prerequisite: One year of programming or CPTR 502

CPTR 524	Advanced Web Programming	3
CPTR 526	User Experience	3
CPTR 546	Web Services	3
OR CPTR 519	Databases and Data Warehouses	3
CPTR 535	Mobile Application Development	

Additional Required Courses   9

CPTR 575	Issues in Computer Science and Religion	3
OR CPTR 598	Project	6
CPTR 599	Thesis	6

Total Hours   33