SOUTHERN UNIVERSITY AND A&M COLLEGE
College of Engineering & Computer Science
Department of Computer Science
COMPUTER SCIENCE SCIENTIFIC OPTION CURRICULUM SHEET
2012-2014 Catalog

Freshman Year

First Semester Course	Number	Credit	Second Semester Course	Number	Credit
Modular Programming I	CMPS 190	3	Modular Programming II	CMPS 191	3
English	ENGL 110	3	English	ENGL 111	3
History of Civilization	HIST 114	3	History of Civilization	HIST 115	3
Health/Physical Education	PHED	2	Analytical Geom. Cal II	MATH 265	4
Analytical Geom. Cal I	MATH 264	4	Freshman Seminar	FRMN 111	1
Freshman Seminar	FRMN 110	1			
Total		**16**	**Total**		**14**

Sophomore Year

First Semester Course	Number	Credit	Second Semester Course	Number	Credit
Discrete Structures	CMPS 200	3	Data Structures	CMPS 201	3
English	ENGL 203	3	General Biology or Chemistry	BIOL/CHEM	4
Linear Algebra	MATH 233	3	Scientific Programming	CMPS 360	3
General Physics	PHYS 221	3	General Physics	PHYS 222	3
General Physics Lab	PHYS 223	4	General Physics Lab	PHYS 224	1
Statistics	MATH 276	1			
Total		**16**	**Total**		**14**

Junior Year

First Semester Course	Number	Credit	Second Semester Course	Number	Credit
Programming Languages	CMPS 300	3	Digital Data Networks	CMPS 334	3
Computer Organization	CMPS 302	3	Object-Oriented Program	CMPS 370	3
CMPS Elective	CMPS	3	Software Engineering	CMPS 378	3
Foreign Language	FOLG 100	3	Foreign Language II	FOLG 101	3
Total		**15**	**Total**		**15**

Senior Year

First Semester Course	Number	Credit	Second Semester Course	Number	Credit
Operating Systems	CMPS 400	3	Computer Architecture	CMPS 402	3
Numerical Methods	CMPS 407	3	Database Management Sys	CMPS 420	3
Theory of Computing	CMPS 412	3	Computer Science Seminar	CMPS 450	3
Humanities Elective	HUMN	3	CMPS Elective		3
Arts Elective	ARTS	3	Free Elective		3
Total		**15**	**Total**		**15**

The required total number of credit hours to fulfill all degree requirements is 120.