Southern University Department of Computer Science Bachelor of Science in Computer Science 2018-2021 Balance Sheet

STUDENT NAME				SID		ADVISOR						
CONCENTRATION: Cyb	ersecurit	ty		Inform	ation System	s Data Analytic & Sciences Mo	bile	_				
COURSE TITLE	CS NO	HR	GR	SEM	YR	COURSE TITLE	CS NO	HR	GR	SEM	YR	
COMPUTER SCIENCE CORE COURSES (41 HRS)						SCIENCE (12 HRS)						
CMPS Seminar I	110B	1				BIOL(104 or 105)/SBIO(101B or 102B)		3				
CMPS Seminar II	111B	1				BIOL Lab(106 or 107)/SBIO(101LB or 102LB)		1				
Programming I	190B	3				General Physics I Lec (PHYS 221B/SPHY 213B)		3				
Programming II	191B	3				General Physics I Lab (PHYS 223B/SPHY 213LB)		1				
Discrete Structures	200B	3				General Physics II (PHYS 222B/SPHY 215B)		3				
Data Structures	201B	3				General Physics II Lab (PHYS 224B/SPHY 214LB)		1				
Java Programming	271B	3				MATHEMATICS (14 HRS)						
Program Languages	300B	3				Linear Algebra	233B	3				
Computer Organization	302B	3				Anal. Geom & Cal I (MATH 264B/SMAT 211B)		4				
Digital Data Networks	334B	3				Anal Geom & Cal II (MATH 265B/SMAT 212B)		4				
Object-Oriented Program	370B	3				Statistics	276B	3				
Software Engineering	378B	3				UNIVERSITY REQUIREMENTS (6 HRS)						
Operating Systems	400B	3				African American Studies (ENGL 203B/SENL 240B)		3	ļ			
Database Management	420B	3				(Will meet with Eng Lit 203)	Eng		ļ			
Capstone project I	450B	1				Volunteerism	400B	3				
Capstone project II	451B	2		2440		Writing Proficiency	1B	0				
CONCENTRATION Cyber Forensics			CURI	IY (18	HRS)	Department Comprehensive	000B	0				
Cyber Forensics	355B	3				ENGLISH (9 I	IKS)	_	ı			
Legal Issues in Info Tech	385B	3				English Composition I (ENGL 110B/SENL 101B)	+	3				
Network Security	426B	3				English Composition II (ENGL 111B/SENL 102B)	+	3				
Computers, Info & Society Disaster Recovery	365B 485B					English Literature(ENGL 203B/SENL 240B) SOCIAL SCIENCE	S (6 UD	,				
	485B	3					3 (0 FIK		1		1	
CS Elective CONCENTRATION IN I	NEODM	•	ı eve	TEMS	(10 HDC)	Economics (ECON 200 or 205/SECO 221B or 211B)	+	3	 			
CS Systems Analysis	415B	AIIO	1313	I LIVIS	(10 1113)	HUMANITIES (S	, HB6/	3	<u> </u>			
Principles of Mgmt	300B			}		History I (HIST 114B/SHIS 111B)		3	T			
Quant. Analysis in Bus	306B			1		History II (HIST 114b/SHIS 111b) History II (HIST 115B/SHIS 112B)	114B 115B	3	1			
BUS Elec I- (312, 341, 410)	300B				-	HISTOTY II (HIST 113B/SHIS 112B)	113B	3				
BUS Elec II-(441, 445, 446)						ARTS ELECTIVES	(3 HRS	J	I			
CS Elective						ARTOLLEGIVE	1	3				
CONCENTRATION IN	DATA A	NAI Y	TIC &	SCIEN	CFS (18	FOREIGN LANGUAG	FS (6 F	IRS)				
Scientific Programming	360B	3		I	020 (.0	1 51(215)(2/11(55)(1	3				
Cloud Computing	372B	3					+ -	3				
Computer Architecture	402B	3				HEALTH or PHYSICAL ED	UCATIO	N (2 F	IRS)			
Theory of Computing	412B	3				Health	110B	2				
Intro Data Analytic	422B	3		1		OR			<u> </u>			
CS Elec		3				Physical Activity I		1				
CONCENTRATIO	N IN M	OBILE	APP	(18 HR	(S)	Physical Activity II		1				
Web Development	350B	3		Ì		OTHER ELECTIVES OR TR	ANSFE	RCRE	DITS	<u> </u>	·	
Cloud Computing	372B	3										
Mobile Client Dev	393B	3										
Mobile Deployment	394B	3										
CS Elective I		3										
CS Elective II		3										
English 203 will satisfy both r	equireme	nts Afri	can Am	erican S	tudies and Eng	glish Literature	Forei	gn Lang	guage m	ust be in se	equence	
(e.g. 100 and 101) of the same	_									e Sheet su	-	
the 2016-2018 University Ca	talog.		-									
Approved		D	ate		Approved: _	Date						
Advisor, Compute	er Science					nair, Computer Science						
ravisor, compun		~				The state of the s						

Dean, College of Sciences & Engineering

_ Date _

___ Date____

Approved: _

Approved _

Undergraduate Coordinator

COMPUTER SCIENCE ELECTIVES

To satisfy degree requirements the student may select from any of these listed courses to satisfy the electives for selected concentration area. Any computer science courses offered which is not specified as a required course for either concentration can also be used. For more detail concerning electives contact your advisor.

	Inform	ation Systems			
CMPS 250	Business Applications with COBOL	CMPS 365	Computers, Information and Society		
CMPS 285	System Administration and Maintenance	CMPS 388	Human-Computer Interaction		
CMPS 315	Information Systems	CMPS 415	Systems Analysis and Design		
CMPS 350	Web Based Programming	CMPS 433	Telecommunications		
	Cyt	persecurity			
CMPS 355	Cyber Forensics	CMPS 485	Disaster Recovery		
CMPS 372	Cloud Computing	CMPS 493	Foundations of Crypthography		
CMPS 375	Information Security	CMPS 494	Cyptographic Protocols		
CMPS 385	Legal Issues in Information Technology	CMPS 495	Enterprise Security Management		
CMPS 426	Network Security	CMPS 496	Internet Security Protocols		
	Data Ana	lytic & Sciences			
CMPS 307	Numerical Analysis	CMPS 425	Robotics		
CMPS 335	Wireless Sensor Networks	CMPS 434	Networks and Graph Theory		
CMPS 360	Scientific Programming	CMPS 435	Introduction to Neural Networks		
CMPS 386	Modeling & Simulation	CMPS 436	Parallel Computing and Application		
CMPS 402	Computer Architecture	CMPS 470	Computer Graphics		
CMPS 407	Numerical Methods	CMPS 480	Artificial Intelligence		
CMPS 412	Theory of Computing				
	Mobile App	olication Electives			
CMPS 305	Social Networking	CMPS 375	Information Security		
CMPS 310	Game Programming	CMPS 387	Object Oriented Design Patterns		
CMPS 318	Computer Animation	CMPS 415	Systems Analysis and Design		
	Comm	non Electives			
CMPS 240	Practical Experience I	CMPS 440	Practical Experience III		
CMPS 340	Practical Experience II	CMPS 455	Special Projects		
CMPS 371	Advanced Object-Oriented Programming				

Note:

Some computer science courses are designed primarily for non-majors and cannot be used as electives (CMPS 105, CMPS 270, and CMPS 290.