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Undergraduate Coordinator

Southern University Department of Computer Science Bachelor of Science in Computer Science

ZU10-ZUZ1	Dalance Sheet	
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STUDENT NAME		ADVISOR				
CONCENTRATION:	Cybersecurity	Information Systems	Scientific	Mobile		

COURSE TITLE	CS NO	HR	GR	SEM	YR	COURSE TITLE	CS NO
COMPUTER SCIENCE	CORE	COUR	SES (47 HRS)		SCIENCE (8 HF	RS)
CMPS Seminar I	110B	1				BIOL(104 or 105)/SBIO(101B or 102B)	
CMPS Seminar II	111B	1				BIOL Lab(106 or 107)/SBIO(101LB or 102LB)	
Prog. Tech. And Alg. Dev. I	190B	3				General Physics I Lec (PHYS 221B/SPHY 213B)	
Prog. Tech. And Alg. Dev. II	191B	3				General Physics I Lab (PHYS 223B/SPHY 213LB)	
Discrete Structures	200B	3				MATHEMATICS (14	4 HR
Data Structures	201B	3				Linear Algebra	233
Java Programming	271B	3				Anal. Geom & Cal I (MATH 264B/SMAT 211B)	
Program Languages	300B	3				Anal Geom & Cal II (MATH 265B/SMAT 212B)	
Computer Organization	302B	3				Statistics	276
Social Networking	305B	3				UNIVERSITY REQUIREM	ENTS
Digital Data Networks	334B	3				African American Studies (ENGL 203B/SENL 240B)	
Information Security	375B	3				(Will meet with Eng Lit 203)	En
Software Engineering	378B	3				Volunteerism	400
Operating Systems	400B	3				Writing Proficiency	001
Database Mgmt Systems	420B	3				Department Comprehensive	000
Paralell and Distr. Proc.	445B	3				ENGLISH (9 H	RS)
Capstone project I	450B	1				English Composition I (ENGL 110B/SENL 101B)	-
Capstone project II	451B	2				English Composition II (ENGL 111B/SENL 102B)	
CYBERSEC	URITY	(18 HF	RS)			English Literature(ENGL 203B/SENL 240B)	
Cyber Forensics	355B	3	Ĺ			SOCIAL SCIENCES	(6 H
Computers, Info. and Society	365B	3				Economics (ECON 200 or 205/SECO 221B or 211B)	
Legal Issues in Info Tech	385B	3					
Network Security	426B	3				HUMANITIES (9	HRS)
Disaster Recovery	485B	3				History I (HIST 114B/SHIS 111B)	
CS Elective		3				History II (HIST 115B/SHIS 112B)	
INFORMATION	SYSTE	MS (18	HRS	5)			
Systems Analysis and Design	415B	3		ĺ		ARTS ELECTIVES	(3 HR
Principles of Management	300B	3					
Quant. Analysis in Bus	306B	3				FOREIGN LANGUAGE	S (6
BUS Elec I- (312, 341, 410)		3					
BUS Elec II-(441, 445, 446)		3					
CS Elective		3				HEALTH or PHYSICAL EDU	CATI
DATA ANALYTIC	& SCIE	NCES	(18 H	RS)		Health	110
Scientific Programming	360B	3				OR	110
Cloud Computing	372B	3				Physical Activity I	
Computer Architecture	402B	3				Physical Activity II	
Theory of Computing	412B	3				OTHER ELECTIVES OR TRA	NSFF
Introduction to Big Data	422B	3				OTHER ELEGINES ON TRA	
CS Elective	4220	3					
MOBILE/APP DE	VEL OP		(18 HI	567			
Web-Based Programming	350B	3	(10 111	(3)			
<u> </u>	_	3				English 202 will estisful ash assuirements for African A	\
Cloud Computing	372B					English 203 will satisfy both requirements for African A Foreign Languages must be in sequence (e.g. 100 and 10	
Mobile Client Development	393B	3	-			Science Elective(s): Check with advisor for list. Note: T	
Mobile Deployment	394B	3				2020 University Catalog	
CS Elective I		3					
CS Elective II		3			1		

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DIOL(104 01 103)/3DIO(101D 01 102D)		3			
BIOL Lab(106 or 107)/SBIO(101LB or 102LB)		1			
General Physics I Lec (PHYS 221B/SPHY 213B)		3			
General Physics I Lab (PHYS 223B/SPHY 213LB)		1			
MATHEMATICS (14 HRS)	1	<u> </u>		
Linear Algebra	233B	3			
Anal. Geom & Cal I (MATH 264B/SMAT 211B)		4			
Anal Geom & Cal II (MATH 265B/SMAT 212B)		4			
Statistics	276B	3			
UNIVERSITY REQUIREM				<u> </u>	
African American Studies (ENGL 203B/SENL 240B)		3			
(Will meet with Eng Lit 203)	Eng	3			
	Eng	2		-	
Volunteerism William B. Ciri	400B	3			
Writing Proficiency	001B	0			
Department Comprehensive	000B	0			
ENGLISH (9 F	IRS)	1			
English Composition I (ENGL 110B/SENL 101B)		3			
English Composition II (ENGL 111B/SENL 102B)		3			
English Literature(ENGL 203B/SENL 240B)		3			
SOCIAL SCIENCES	S (6 HRS)				
Economics (ECON 200 or 205/SECO 221B or 211B)		3			
		3			
HUMANITIES (9	HRS)	•			
History I (HIST 114B/SHIS 111B)		3			
History II (HIST 115B/SHIS 112B)		3			
		3			
ARTS ELECTIVES	(3 HRS)			1	
, -	(0 11110)	3			
FOREIGN LANGUAG	ES (6 HRS				
1 OKEION EAROUAG		· .			
		3			
LIEALTH AT DUVEICAL EDI	ICATION	(2 LIDE)			
HEALTH or PHYSICAL EDI	1	<u> </u>			ı
Health	110B	2			
OR	1				
Physical Activity I		1			
Physical Activity II		1			
OTHER ELECTIVES OR TRA	ANSFER C	REDITS	3		
English 203 will satisfy both requirements for African Foreign Languages must be in sequence (e.g. 100 and Science Elective(s): Check with advisor for list. Note: 2020 University Catalog	101) of the	same lan	guages	. Compu	ter
Approved]	Date	
Chair, Computer Science		-			
Chan, Computer Science					

Dean, College of Sciences & Engineering

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COMPUTER SCIENCE ELECTIVES

To satisfy degree requirements the student may select from any of these listed courses to satisy 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	nation 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
	Cyl	bersecurity	
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	alytic & 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 Ap	plication 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	mon Electives	
CMPS 240	Practical Experience I	CMPS 440	Practical Experience III
CMPS 340	Practical Experience II	CMPS 455	Special Projects

Note:

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