Alabama State University
CURRICULUM GUIDE
COMPUTER SCIENCE
(Leading to the Bachelor of Science Degree)

NAME _____ SID# _____ DATE _____

AREAS I-V - CORE CURRICULUM - 42 Hours

Course	Hrs	Grade	Term
ENGLISH COMPOSITION - 6 Hours			
ENG 131 English Comp. (or 140 Honors)	3		
ENG 132 English Comp. (or 141 Honors)	3		
HUMANITIES AND FINE ARTS - 12 Hours			
HUM 103 Hum. through the African..*	3		
ENG 209 Introduction to Literature **	3		
ENG 210 Introduction to Literature**	3		
Choose 1 from the following…….			
ART 131 Art Appreciation	3		
THE 111 Introduction to Theatre Arts	3		
MUS 121 Music Appreciation	3		
*Humanities Electives (Choose one of the following)**			
CMS 200 Voice & Diction	3		
CMS 205 Public Speaking	3		
PHL 201 Logical Reasoning	3		
HUM 101 Interdisciplinary Humanities	3		
HUM 102 Interdisciplinary Humanities	3		
ORIENTATION - 1 Hour			
ORI 100 Freshman Orientation	1		

Course	Hrs	Grade	Term
HISTORY, SOCIAL AND BEHAVIORAL SCIENCES - 12 Hours			
GEO 206 World Geography *	3		
HIS 131 World History **	3		
HIS 132 World History **	3		
*History, Social, and Behavioral Sciences Electives (Choose two)**			
ANT 113 Societies Around the World	3		
ECO 251 Principles of Economics 1	3		
ECO 254 Introduction to Economics	3		
POS 207 American Government	3		
PSY 251 General Psychology	3		
SOC 110 Introduction to Sociology	3		
NATURAL SCIENCES AND MATHEMATICS - 11 Hours *			
Natural Sciences			
PHY 210 General College Physics	4		
PHY 211 General College Physics II	4		
Mathematics			
MAT 137 Precalculus Algebra	3		
TOTAL REQUIRED CORE HOURS	**42**		

*Students originating at ASU requirement.

**Students satisfying the 6 semester hour literature sequence (ENG 209 and 210) are only required to complete 3 semester hours of history sequence (HIS 131 or 132) and are not required to take a humanities elective. Students satisfying the 6 semester hour history only required to take one history, social and behavioral science elective. sequence (HIS 131 and 132) are not required to complete the 6 semester hour literature sequence (ENG 209 or 210) and are only required to take one (1) history, social science, and behavior science elective.

***MAT 165 Precalculus Trig (BIO Majors)

***MAT 265 Calculus and Geometry (PHY and CHE Majors)

PRE-PROFESSIONAL COURSES – 22 HOURS

Course	Hrs	Grade	Term
MAT 165 Precalculus Trigonometry	5		
MAT 251 Introduction to Linear Algebra	8		
MAT 256 Discrete Mathematics	3		

Course	Hrs	Grade	Term
MAT 265 Calculus & Analy. Geometry I	4		
MAT 266 Calculus & Analy. Geometry II	4		
MAT 472 Probability & Statistics I	3		
TOTAL PRE-PROFESSIONAL HOURS	**19**		

AREA VI – REQUIRED MAJOR COURSES – 41 HOURS

Course	Hrs	Grade	Term	Course	Hrs	Grade	Term
CSC 210 Introduction to Computer Science	3			CSC 315 Data Communications And Networking	4		
CSC 211 Program Concepts, Standards, Methods & Algorithms	4			CSC 330 Architecture of Digital Computers	3		
CSC 212 Introduction to Data Structure	4			CSC 414 Operating Systems	4		
CSC 280 Introduction to Software Engineering I	4			CSC 421 Data Structure and Algorithm Analysis	4		
CSC 311 Introduction to Computer Organization	4			CSC 431 Organization of Programming Languages	3		
CSC 312 Introduction to Computer Systems	4						
				TOTAL REQUIRED MAJOR COURSE HOURS		*41*	

AREA VII – MAJOR COURSE ELECTIVES* – 10 HOURS

Course	Hrs	Grade	Term	Course	Hrs	Grade	Term
CSC 380 Algorithms	3			CSC 442 Computer Graphics	3		
CSC 420 Numerical Methods	3			CSC 445 Supercomputing	4		
CSC 435 Database and Information Retrieval	3			CSC 447 Object Oriented Programming	4		
CSC 437 Software Engineering II	3			CSC 460 Artificial Intelligence	3		
CSC 440 Automata, Computability & Formal Lang.	3			CSC 490 Special Topics	3		
CSC 441 Compiler Design	4			CSC 491 Special Topics	3		
				CSC 492 Special Topics	3		
				TOTAL MAJOR COURSE ELECTIVE HOURS		*10*	

*Students must select a minimum of 10 hours of coursework from the Major Course Elective list above.

AREA VIII – GENERAL ELECTIVE COURSES – 6 HOURS

Course	Hrs	Grade	Term	Course	Hrs	Grade	Term
				TOTAL GENERAL ELECTIVE HOURS		*6*	

TOTAL SEMESTER HOURS _____ *121* _____

Expected Date of Graduation _____

REMINDERS - FULFILL BEFORE GRADUATION: All Students
- ALL GRADES below a "C" must be repeated before graduation - University Policy.
- The UNIVERSITY READING requirement is to score a minimum of 13.0 on the Nelson Denny Reading Test. (currently suspended)
- The ENGLISH PROFICIENCY EXAMINATION is required to exit University College. (currently suspended)
- The SENIOR COMPREHENSIVE EXAMINATION is required before graduation. (currently suspended)
- The BACCALAUREATE WRITING COMPETENCY TEST is required before being admitted to senior status and must be passed before being eligible to file for a degree from ASU. (currently suspended)
- ALL GRADES below a "C" must be repeated before graduation - University Policy.

REMINDERS - FULFILL BEFORE GRADUATION: Computer Science Majors
- The SENIOR COMPREHENSIVE EXAMINATION is required before graduation.

SIGNATURES

Student Signature	Date

Advisor Signature	Date

Chairperson Signature	Date

Effective date of curriculum