

COMPUTER SCIENCE DEGREE CURRICULUM WORKSHEET

Natural & Applied Sciences Department
Bachelor of Science Degree
2009-2010 AY

NAME:				
EMAIL:				
PHONE:				
GENERAL EDUCATION				
COURSE NUMBER	COURSE NAME	CR	Sem	Grade
I. CORE REQUIREMENTS				
	<u>Essential Skills (15 Credits)</u>			
HEN 112	English I	3		
HEN 113	English II	3		
HEN 114	Speech	3		
EDU 110	Intro. Interp. & Analysis	3		
HPH 110	Critical Thinking	3		
	<u>Mathematics (3 credits)</u>			
MAT 160	Calculus I◇	4		
	<u>African-American Experience (3 credits)</u>			
AAS 210	A-A Experience in a Global Context	3		
	<u>Freshmen Experience (2 credits)</u>			
GAC 101	Freshmen Seminar I	1		
GAC 102	Freshman Seminar II	1		
Note: All Core requirements must be complete before a student is considered a Junior.				
II. DISTRIBUTION REQUIREMENTS (Can Not Be Major Courses)				
	<u>Humanities (6 credits)*</u>			
	Humanities course I	3		
	Humanities course II	3		
*Satisfactory courses include literature, language, theater, music, arts, & philosophy.				
	<u>Foreign Language (6 credits)**</u>			
	Foreign Language I	3		
	Foreign Language II	3		
**Must be in the same language.				
	<u>Social Sciences (6 credits)***</u>			
	Social Science Elective I	3		
	Social Science Elective II	3		
***Satisfactory courses include economics, geography, history, political science, psychology & sociology.				
	<u>Natural Science (6 credits)④</u>			
S _____	Natural Science Elective I	3		
S _____	Natural Science Elective II	3		
④Satisfactory courses include biology, chemistry, physics, earth or space science.				
	<u>Health & Wellness; Service Learning (4 credits)</u>			
REC 111	Health & Wellness	2		
REC	Physical Education	1		
REC/SL	Physical Education/Service learning	1		
TOTAL CREDITS IN GENERAL EDUCATION		52		
III. GENERAL EDUCATION INTENSIVE COURSES				
	Writing Course (W)	3		
	Writing Course (W)	3		
	Writing Course (W)	3		
	Global Course (G)	3		
	Information Literacy course (I)	3		
	African-American Heritage	3		
Must maintain a grade of "C" or better in ALL Required Courses				
A 2.0 overall cumulative GPA is required for graduation.				

ADVISOR:				
ENTERED:				
ANT. GRADUATION:				
DATE LAST UPDATED:				
MAJOR COURSES				
COURSE NUMBER	COURSE NAME	CR	Sem	Grade
REQUIRED CIS COURSES				
CIS 101	Computer Programming I ◎ ◇	3		
CIS 102	Computer Programming II ◎ ◇	3		
CIS 106	Computer Programming III ◎ ◇	3		
CIS 103	Information Structures◇	3		
CIS104	Computer Organization◇	3		
CIS 105	Basic Assembler◇	3		
CIS 201	Programming Languages◇	3		
CIS 211	Operating Systems◇	3		
CIS 231	Compiler Construction◇	3		
CIS 321	Info Organization & Retrieval◇	3		
CIS 401	Topics in CIS◇	3		
	Total	33		
Advanced Computer Science Electives (6 Credits)				
CIS 215	Fundamental Structures of CS◇	3		
CIS 301	Switching Theory◇	3		
CIS 311	Systems Simulation Programs◇	3		
CIS 330	Algorithms and Fortran◇	3		
CIS 331	Theory of Computability◇	3		
CIS 402	Operations Analysis & Modeling◇	3		
CIS 411	Large Scale Info Processing System◇	3		
CIS 413	Software Engineering◇	3		
MAT 225	Probability & Statistics◇	3		
MAT 331	Numerical Analysis◇	3		
MAT 461	Applied Mathematics◇	3		
	Total	6		
Required Related Courses				
HEN 319	Advanced Composition◇	3		
MAT 202	Discrete Mathematics◇	3		
MAT 170	Calculus II◇	4		
MAT 203	Linear Algebra◇	3		
SPY 212	Physics II◇	4		
	Total	17		
Free Electives (12 Credits) (May be used to satisfy the W,G,A, and I Re		12		
	Upper Level Free Elective -1			
	Free Elective -2			
	Free Elective -3			
	Free Elective -4			
TOTAL CREDITS FOR GRADUATION		120		
NON-CREDIT DEVELOPMENTAL COURSES:		CR	Sem	Grade
ERE 001	Reading & Study Skills			
HEN 011	Elements of Writing			
MAT 001	Basic Math			
MAT 002	Elementary Algebra			
+PASSHE Policy 1990-06-A holds that elective course selection is encouraged.				
++PASSHE Policy 1990-06-A holds that 48 credits of the total 120 must be upper level courses.				