Bachelor of Science in Computer Science										
UNIVERSITY CORE REQUIREMENTS					DEPARTMENTAL REQUIREMENTS					
	Sch	Hr	Gr	QP		Sch	Hr	Gr	QP	
EN 1103 English Composition I		3			CSE 1002 Intro to CSE		2			
EN 1113 English Composition II		3			CSE 1284 Intro Comp Programming		4			
MA (See Dept Req)					CSE 1384 Inter Comp Programming		4			
Natural Sciences (See Dept Req)					CSE 2383 Data Struc & Anal of Alg.		3			
Humanities Elective		3			CSE 2813 Discrete Structures		3			
Humanities Elective		3			CSE 3324 Dist Client Server Program.		4			
Fine Art Elective		3			CSE 3813 Formal Languages		3			
Social Science Elective		3			CSE 4763 Legal & Ethical Issues in Con	n	3			
Social Science Elective		3			CSE 4503 Database Mgmt Systems		3			
CO 1003 or CO 1013		3			CSE 4713 Programming Languages		3			
GE 3513 (Writing)		3			CSE 4733 Operating Systems I		3			
					CSE 4833 Intro. to Anal. of Alg.		3			
Computer Literacy (See Dept Req)					CSE Elective (Group 1)		3			
					CSE Elective (Group 1)		3			
DEPARTMENTAL REQUIREMENTS				CSE Elective (Group 2)		3				
MA 1713 Calculus I		3			CSE Elective (Group 2)		3			
MA 1723 Calculus II		3								
MA 3113 Linear Algebra		3								
Math elective: MA 2733 Calculus III, MA 3053 Foundations of Math., MA 4143 Graph Theory, MA 4173 Number Theory		3								
IE 4613 Engineering Statistics I		3			ECE 3714 Digital Devices		4			
BIO 1134 Biology I		4			ECE 3724 Microprocessors I		4			
CH 1213 Chemistry I		3			ECE 4713 Computer Architecture		3			
CH 1211 Chemistry Lab		1			Technical Electives		6			
PH 2213 Physics I		3			7 Hours of Free Electives		7			
Science Elective: PH 2223 Physics 2 CH 1223 Chemistry 2 & CH 1221		3-4								
BIO 1144 Biology 2										

Note: All electives are listed on the reverse side of this page. Note: Total hours must be 128 or greater

DEPARTMENTALLY APPROVED ELECTIVES

Fine Arts: (3 hours)

See <u>http://www.catalog.msstate.edu/</u> for most up-to-date listing of core curriculum (academic policies/general education requirements)

Humanities: (6 hours)

See <u>http://www.catalog.msstate.edu/</u> for most up-to-date listing of core curriculum (academic policies/general education requirements)

Social/Behavioral Science: (6 hours)

See <u>http://www.catalog.msstate.edu/</u> for most up-to-date listing of core curriculum (academic policies/general education requirements)

Technical Electives: (6 hours)

Any upper level course in the following areas that is not already required in the CS curriculum: CS, ECE, MA

IE 3913 Engineering Economy IE 4113 Human Factors Engineering IE 4123 Psychology of HCI IE 4333 Production Control Systems I IE 4513 Engineering Administration IE 4573 Process Improvement Engineering IE 4623 Engineering Statistics II IE 4653 Industrial Quality Control I IE 4713 Operations Research I IE 4733 Linear Programming I IE 4773 Systems Simulation I BIS 4523 Business Programming w/COBOL BIS 4533 Decision Support Sys

Computer Science Electives (Group 1): (6 hours)

CSE 4153 Data Communications and Computer Networks CSE 4163 Designing Parallel Algorithms CSE 4214 Intro to Software Engineering CSE 4253 Secure Software Engineering CSE 4413 Principles of Computer Graphics CSE 4453 Game Design CSE 4633 Artificial Intelligence CSE 4643 AI Robotics CSE 4743 Operating Systems II

Computer Science Electives (Group 2): (6 hours)

Any upper level CSE course*

* No more than six hours of directed individual study may be counted as CSE Electives.