

## Curriculum (updated August 2019)

<b>Bachelor of Science in Software Engineering</b>				
UNIVERSITY CORE REQUIREMENTS (27 hours)				
	Sch	Hr	Gr	QP
EN 1103 English Composition I		3		
EN 1113 English Composition II		3		
MA (See Dept Req)				
Natural Sciences (See Dept Req)				
Humanities Elective		3		
Humanities Elective		3		
Fine Art Elective		3		
Social Science Elective		3		
Social Science Elective		3		
CO 1003 or CO 1013		3		
GE 3513 (Writing)		3		
Computer Literacy (See Dept Req)				
DEPARTMENTAL REQUIREMENTS (29 hours)				
MA 1713 Calculus I		3		
MA 1723 Calculus II		3		
MA 3113 Linear Algebra		3		
Math elective: MA 2733 Cal III, MA 3053 Foundations of Math., MA 4143 Graph Theory, MA 4173 Number Theory		3		
IE 4613 Engineering Statistics I		3		
BIO 1134 Biology I		4		
CH 1213 Chemistry I		3		
CH 1211 Chemistry Lab		1		
PH 2213 Physics I		3		
Science Elective: PH 2223 Physics 2 CH 1223 Chemistry 2 & CH 1221 BIO 1144 Biology 2		3-4		
DEPARTMENTAL REQUIREMENTS (71 hours)				
	Sch	Hr	Gr	QP
CSE 1002 Intro to CSE		2		
CSE 1284 Intro Comp Programming		4		
CSE 1384 Inter Comp Programming		4		
CSE 2383 Data Struc & Alg Anal		3		
CSE 2813 Discrete Structures		3		
CSE 3213 SE Senior Project I		3		
CSE 3223 SE Senior Project II		3		
CSE 3324 Dist Client Server Prog		4		
CSE 3981 Computer Ethics		1		
CSE 4153 Data Communications		3		
CSE 4214 Intro Software Engineering		4		
CSE 4233 Soft. Arch. and Design		3		
Cybersecurity Elective (3 hours)		3		
CSE 4283 Soft. Test and QA		3		
CSE 4503 Database Management		3		
CSE 4733 Operating Systems I		3		
CSE 4833 Intro. to Anal. of Alg.		3		
CSE 4223 or IE 4533 (Proj. Mgt)		3		
ECE 3714 Digital Devices		4		
ECE 3724 Microprocessors I		4		
Technical Elective		6		
Free Electives		3		

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

\*the last date the curriculum was changed

## DEPARTMENTALLY APPROVED ELECTIVES

### **Fine Arts: (3 hours)**

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

### **Humanities: (6 hours)**

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

### **Social/Behavioral Science: (6 hours)**

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

### **Cybersecurity Elective: (3 hours)**

CSE 4243/ECE 4763 Information Security

CSE 4253 Secure SW Eng

CSE 4273 Digital Forensics

CSE 4383 Crypto & Network Security

CSE 4990 Special Topics (as approved)