ARKANSAS STATE UNIVERSITY
COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

DEGREE AND MAJOR: **M. S., COMPUTER SCIENCE**
EMPHASIS: **Cyber Security**

NAME: _____
STUDENT ID: _____

CATALOG YEAR: **2020 - 2021**
revised: **06/17/20**

	SEMESTER	GRADE
CORE REQUIREMENTS: 9-21 hours		
Compilers or Automata Theory (one of next two)		
CS 5133: Compilers		
CS 5723: Automata Theory		
Computer Systems (one of next four)		
CS 5313: Computer Networks		
CS 6213: Parallel Processing		
CS 6243: Distributed Systems		
CS 6253: Heterogeneous Computing		
Algorithms (one of next one)		
CS 5713: Analysis of Algorithms		
EMPHASIS IN CYBER SECURITY (12 hours)		
Required courses: three of next four, and total four of next seven		
CS 6123: Software Security		
CS 6313: Data Security		
CS 6323: Computer Security		
CS 6333: Network and Internet Security		
Elective courses for emphasis:		
CS 6343: Cloud Security		
CS 6353: Hardware Security		
LAW 6033: Cyberlaw and E-Commerce		
ELECTIVES : 0-12 hours (Total 33 hrs including core/emphasis courses)		
CS 5113: Software Engineering		
CS 5223: UNIX Systems Programming		
CS 5413: Fundamental Computer Graphics		
CS 5423: Interactive Computer Graphics		
CS 5433: Artificial Intelligence		
CS 5543: Database Systems		
CS 5613: Mobile Application Development		
CS 5623: Fundamentals of Data Science		
CS 5823: Scripting Languages		
CS 583V: Internship (not counted towards degree)		
CS 6223: Advanced Computer Architecture		
CS 6233: Operating System Design		
CS 6263: Cloud Computing		
CS 6413: Solid Modeling		
CS 6423: Robotic Software Control		
CS 6443: Machine Learning		
CS 6463: Image Processing		
CS 6523: Data Mining Techniques		
CS 6543: Adv. Database Systems		
CS 6613: Bioinformatics		
CS 6713: Advanced Analysis of Algorithms		
CS 6723: Computability Theory		
CS 6813: Seminar in Computer Science		
CS 688V: Independent Study		
CS 689V: Thesis		
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Note:

A minimum of thirty-three hours are required for this degree, eighteen of which must be 6000 level coursework.

Selections may include up to 6 hrs. MATH/STAT, w/ prior approval.

UNDERGRADUATE DEFICIENCIES

Required deficiencies bring M. S. candidate to level of B. S. degree graduate.

No 6000-level courses for credit until all deficiencies circled below have been completed.

	SEMESTER	GRADE
Computer Science:		
three of next three		
CS 2114: Structured Programming		
CS 2124: OOP & Fund Data Structures		
CS 3113: Algorithms & Adv Data Structures		
or three of next three		
CS 5012: Acc Structured Programming		
CS 5022: Acc OOP & Fund Data Structures		
CS 5032: Acc Algorithms & Adv Data Struct		
and		
CS 3223: Computer Organization		
CS 3233: Operating Systems		
Mathematics and Statistics:		
MATH 2183: Discrete Structures		
MATH 2204: Calculus I		
MATH 2214: Calculus II		
STAT 3233: Applied Statistics I		
_____		
_____		

GRADUATION CHECK LIST

Undergraduate deficiencies	
18 hours of 6000 level coursework	
33 hours for degree	
3.00 average overall	
3.00 average in major	
Comprehensive exam	
Emphasis in Cyber Security	

Current Enrollment:

1. _____
2. _____
3. _____
4. _____

The above named student has met all requirements for graduation providing he/she satisfactorily completes the courses of current enrollment.

Advisor _____ Date

Chair of Computer Science _____ Date

Dean of College of Engineering & Computer Science _____ Date