

CYBER SECURITY, BACHELOR OF SCIENCE

BACHELOR DEGREE REQUIREMENTS:

- ☐ Minimum 122 Credit Hours
 - ☐ Writing Intensive Course
 - ☐ Minimum Cumulative G.P.A.: 2.00
 - ☐ 30 Credit Hours of Residency Courses
 - ☐ 9 Credits of Upper-Level Major Residency Courses
 - ☐ Minimum G.P.A. in the Major: 2.00
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PROGRAM MAJOR REQUIREMENTS (82 CREDIT HOURS):

- ☐ CIS 101 Introduction to Computer Science (3)
- ☐ CIS 110 Programming Fundamentals (3)
- ☐ Complete one of the following courses (3):
 - CIS 214 Applications Programming: Java*
 - CIS 215 Applications Programming: C++*
- ☐ CIS 240 Networking Concepts (3)
- ☐ CIS 330 Systems Analysis (3)
- ☐ CIS 350 Database Design and Management (3)
- ☐ CIS 380 Internship (3)
- ☐ CIS 440 Network Security (3)
- ☐ CIS 460 Computers & Culture (3)
- ☐ ISS 210 Introduction to Information Security (3)
- ☐ ISS 340 Computer Security (3)
- ☐ ISS 410 Cyber Security I (3)
- ☐ ISS 412 Cyber Security II (3)
- ☐ MAT 115 Elementary Statistics I (3)

Focus Area:

- ☐ ISS 220 Security Risk Management (3)
- ☐ ISS 240 Security Policy and Governance (3)
- ☐ ISS 250 Auditing IT Infrastructures (3)
- ☐ ISS 310 Information Security Architecture (3)
- ☐ ISS 320 Security Analytics (3)
- ☐ ISS 332 System Forensics I (3)
- ☐ ISS 360 Business Continuity and Disaster Recovery (3)
- ☐ ISS 432 System Forensics II (4)
- ☐ ISS 452 Security Strategies in Web Applications and Social Networking (3)
- ☐ ISS 470 Information Security Management (3)

Security Electives:

- ☐ Complete any three ISS or CIS electives (9)
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GENERAL EDUCATION REQUIREMENTS (37 CREDIT HOURS):

- ☐ Complete any 100-level Communications course (3)
- ☐ ENG 101 College Writing (3)
- ☐ ENG 317W Professional Writing (3)

☐ Complete one of the following Fine Arts electives (3):

ART 1xx any 100-level Art course
DRA xxx any Drama course
ENG 351 Creative Writing I
ENG 452 Creative Writing II
MUH 1xx any 100-level Music History course
MUS 1xx any 100-level Music course

☐ Complete two of the following Humanities electives (6):

AME xxx any American Studies course
ARH 105 History of Art & Architecture I
ARH 106 History of Art & Architecture II
DRA xxx any Drama course
ENG xxx any English course (except ENG 101 or 317w)
FRE xxx any French course
HGH xxx any Holocaust, Human Rights & Genocide course
HTY xxx any History course
HUM xxx any Humanities course
MUH xxx any Music History course
PHI xxx any Philosophy course (except PHI 135 or 335)
SPA xxx any Spanish course
WGS xxx any Women and Gender Studies course

☐ MAT 112 College Algebra (3)☐ BUA 223 Principles of Management (3)☐ BUA 365 Organizational Behavior (3)☐ Complete any 100-level Laboratory Science course (4)☐ Complete two of the following Social Science electives (6):

ANT 1xx any 100-level anthropology course
ECO 1xx any 100-level economics course
ECO 201 Macroeconomics
ECO 202 Microeconomics
JUS 1xx any 100-level justice studies course
POS 1xx any 100-level political science course
PSY 1xx any 100-level psychology course
SOC 1xx any 100-level sociology course
SSC 1xx any 100-level social science course

GENERAL ELECTIVES (3 CREDIT HOURS):☐ Complete any 100-level or higher general elective (3)

Students are encouraged to contact their faculty advisor and the Advising Center for academic advising and support services throughout their stay at UMA.
