MS in Cybersecurity and Information Assurance
(30 credit hours)

Name: _____   **Student Number:** _____

Graduate Business School Policies:

- A grade of "C" or higher is passing and required for all coursework. Cumulative GPA must be 3.0 or higher to graduate.
- Prerequisite ("prereq") = must be completed prior to boldface course.
  Corequisite ("coreq") = must be completed prior to or during same semester as boldface course.
- Track your progress with the online Degree Audit tool. For questions about your degree plan or for other program assistance, please call 303-315-8110 or email grad.advising@ucdenver.edu.

Cybersecurity and Information Assurance Core *(24 credit hours)*

1. **ISMG 6020** Programming Fundamentals with Python   _____

2. **ISMG 6120** Network Design and Analysis   _____

3. **ISMG 6340** Cloud Computing Concepts, Tools, and Security   _____

4. **ISMG 6430** Information Systems Security and Privacy   _____

5. **ISMG 6860** Ethical Hacking Concepts and Methodologies   _____

6. **ISMG 6865** Digital Forensics Analysis   _____

7. **ISMG 6890** IT Risk Management   _____

8. **ISMG 6910** Design Science Practicum   _____
   Or an approved internship with required paper and presentation.
   This capstone should be completed during final 12 credits hours of program.

Cybersecurity and Information Assurance Electives *(6 credit hours)*

- Any **ISMG** courses numbered 5000 or higher. NOTE: Intensive courses offered the week before the semester starts are 1 credit.
- Can also be fulfilled with approved **non-ISMG** graduate courses. See the Cybersecurity and Information Assurance approved electives sheet.

9. _____   _____

10. _____   _____

MS in Cybersecurity and Information Assurance Approved Electives

- Any **ISMG** courses numbered 5000 or higher. NOTE: Intensive courses offered the week before the semester starts are 1 credit.
- Can also be fulfilled with approved **non-ISMG** graduate courses from the list below.
- Students are responsible for knowing and meeting course prerequisites. Please see the course description in UCDAccess or the University catalog for prerequisite information. If you would like to petition to waive a prerequisite based on prior coursework, consult a graduate business advisor.
- ENTP/RISK courses are found under the Campus "Extended Studies" in UCDAccess and may charge different tuition rates. These courses are not eligible for the CU Employee Tuition Assistance Benefit (TAB).
- Contact a graduate business advisor at grad.advising@ucdenver.edu with any questions.

ACCT 6020 Auditing Theory
ACCT 6031 Intermediate Financial Accounting I
ACCT 6054 Accounting Information Systems
Any **BANA** course that is numbered 6000 or higher. (Some **BANA** courses have **BANA 6610** as prerequisite. Evidence of quantitative ability and a petition are required for enrollment in BANA 6610.)
BUSN 6530 Data Analytics for Managers
ENTP 6620 New Venture Operations and Project Management (cannot receive credit for both ENTP 6620 and ISMG 6450)
ENTP 6822 Legal and Ethical Issues of Entrepreneurship
ENTP 6824 Entrepreneurial Financial Management
ENTP 6826 International Entrepreneurship
ENTP 6848 Leadership for New and Innovative Ventures
HLTH 6071 Introduction to Health Information Technology
RISK 6129 Practical Enterprise Risk Management
RISK 6209 Cyber Risk Management
RISK 6309 Strategic Risk Management
RISK 6509 Global Risk Management

Please see engineering for assistance with these courses:

CSCI 5211 Mobile Computing and Programming
CSCI 5455 Data Mining
CSCI 5580 Data Science
CSCI 5582 Artificial Intelligence
CVEN 5381 Introduction to Geographic Information Systems
CVEN 5382 Geospatial Data Development
CVEN 5383 GIS Analysis
CVEN 5384 GIS Project Management
CVEN 5385 GIS Relational Database Systems
CVEN 5387 Advanced Remote Sensing
CVEN 5390 Interactive Web Mapping GIS
CVEN 5391 Introduction to Geomatics
CVEN 5392 Unmanned Aerial Systems
CVEN 5395 GPS/GNSS