PAMPLIN COLLEGE OF
BUSINESS
VIRGINIA TECH.

Department of Business Information Technology
Bachelor of Science in Business
Major: **Business Information Technology**
Option: **Cybersecurity Management & Analytics (CMA)**
For students graduating in calendar year 2022 and
for student date of entry under UG Catalog 2020-2021

APPROVED
COMMISSION ON UNDERGRADUATE
STUDIES AND POLICIES

YEAR ONE

FALL SEMESTER	✦	Credits	SPRING SEMESTER	✦	Credits
ACIS 1504: Introduction to Business Analytics & Business Intelligence[1,2]	M	3	ACIS 2115: Principles of Accounting[1,2]	M	3
MATH 1524: Business Calculus[1,2]	5f	4	ECON 2005: Principles of Economics[1,2]	3	3
MGT 1104: Foundations of Business[2]	M	3	*BIT 2405: Introduction to Business Statistics, Analytics, & Modeling[1,2]	5f	3
ENGL 1105: First-Year Writing or COMM 1015: Communication Skills	1f	3	*ENGL 1106: First-Year Writing or *COMM 1016: Communication Skills	1f	3
PSYC 1004: Introductory Psychology or SOC 1004: Introductory Sociology	M	3	Critical Thinking in the Humanities	2	3
Total		**16**	**Total**		**15**

YEAR TWO

FALL SEMESTER	✦	Credits	SPRING SEMESTER	✦	Credits
*ACIS 2116: Principles of Accounting[1,2]	C	3	*#BIT 3414: Operations & Supply Chain Management[2]	C	3
*ECON 2006: Principles of Economics[1,2]	3	3	*#BIT 3424: Introduction to Business Analytics Modeling	M	3
*BIT 2406: Introduction to Business Statistics, Analytics, & Modeling[1,2]	5a	3	HTM or MGT 2314: Introduction to International Business[2]	C	3
CS 1054: Introduction to Programming in Java or CS 1064: Introduction to Programming in Python or CS 1114: Introduction to Software Design	M	3	Critical Thinking in the Humanities	2	3
Reasoning in the Natural Sciences	4	3	Reasoning in the Natural Sciences	4	3
Critique & Practice in the Arts	6a	3	BIT 2104: Careers in Business Information Technology	M	1
Total		**18**	**Total**		**16**

YEAR THREE

FALL SEMESTER	✦	Credits	SPRING SEMESTER	✦	Credits
*#BIT 3434: Advanced Modeling for Business Analytics	M	3	*#BIT/ACIS 3554: Networks, Telecommunications & Security	O	3
*#BIT 3444: Advanced Business Computing & Applications	M	3	*#BIT 4614: Information Security	O	3
#MKTG 3104: Marketing Management[2]	C	3	#FIN 3054: Legal & Ethical Environment of Business[2]	C	3
*#MGT 3404: Principles of Management[2]	M	3	*#FIN 3104: Introduction to Finance[2]	C	3
Critique & Practice in Design	6d	3	Free Elective		3
Total		**15**	**Total**		**15**

YEAR FOUR

FALL SEMESTER	✦	Credits	SPRING SEMESTER	✦	Credits
*#BIT 4604: Data Governance, Privacy, & Ethics	O	3	#BIT 4964: Field Study (approval required)	O	3
*#FIN 4014: Cyber Law & Policy	O	3	*#BIT 4624: Cybersecurity Analytics for Business	O	3
*#BIT 4484: Project Management	M	3	Critical Analysis of Identity & Equity in the U.S.[3] or Free Elective	7	3
*#MGT 4394: Strategic Management[2]	C	3	*#BIT CMA Elective (see page 2)	O	3
Free Elective		3	Advanced/Applied Discourse	1a	3
Total		**15**	**Total**		**15**

✦	C = Degree Core Required Course	M = Major Required Course	O = Option Required Course

All other designations identify Pathways General Education requirements https://www.pathways.prov.vt.edu/

BIT CMA ELECTIVES (choose one – 3 credit hours)

*#ACIS 4684: Information Systems Security & Assurance
*#BIT 3514: Systems Analysis & Design
*#BIT 3524: Database Management & Design
*#BIT 4424: Business Information Visualization & Analytics
*#BIT 5114: Crime & Conflict in Cyberspace (requires permission of department)
*#BIT 5134: Cybersecurity Program Design (requires permission of department)
*#CS 4264: Principles of Computer Security
*#ECE 4560: Computer & Network Security Fundamentals
*#MATH 4175: Cryptography
*#SPIA 4374: Federal Cybersecurity Policy & Regulation

GENERAL INFORMATION

This checksheet applies to students completing their degrees in calendar year 2022 and for student date of entry under UG Catalog 2020-2021. A total of **125 credit hours** is required for graduation. Any exceptions to this curriculum must be approved by the student's department head and Associate Dean for Pamplin Undergraduate Programs.

Foreign Language Requirement: Students who did not successfully complete at least two years of a single foreign, classical, or sign language during high school must successfully complete six credit hours of a single foreign, classical, or sign language at the college level. Courses taken to meet this requirement do not count towards the minimum credit hours required for graduation. Please refer to the Undergraduate Catalog for details.

Pre-requisites: Students are responsible for ensuring they have met necessary pre-requisites for all courses. Courses with pre-requisites are noted with * (e.g. *BIT 2405). Please refer to the Undergraduate Catalog or academic advisor.

Transferring Courses: Requirements and procedures for transferring courses are available http://pampl.in/transfercreditsteps.

Overall and In-Major GPA: Students must have an overall GPA of 2.0 and an in-major GPA of 2.0 to graduate. Courses used to calculate the in-major GPA are noted with a # (e.g. #BIT 3424).

Policy 91: University policy requires a student to make satisfactory academic progress towards a degree in order to remain enrolled at the institution (see footnote 1). Students are responsible for reading and understanding Policy 91 in accordance with Pamplin policies http://pampl.in/policy91.

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[1] Policy 91: Pamplin students in a business degree program must complete eight business courses (ACIS 1504, MATH 1524, ACIS 2115-2116, BIT 2405-2406, and ECON 2005-2006) with a grade of C- or higher by 72 attempted credit hours (or 90 attempted credit hours for students with more than 18 transfer credits). Students who have not met the requirements will be notified upon reaching 72 (or 90) credit hours that they must complete the missing course(s) in the next term(s) of enrollment. Failure to do so may result in the student's dismissal from the business degree program. This policy is strictly enforced.

[2] Graduation requirement: Students must achieve a grade of C- or higher in select business courses (ACIS 1504, MATH 1524, ACIS 2115-2116, BIT 2405-2406, ECON 2005-2006, MGT 1104, HTM or MGT 2314, MGT 3404, MKTG 3104, FIN 3104, FIN 3054, BIT 3414, and MGT 4394).

[3] Critical Analysis of Identity & Equity in the U.S. may be double-counted with another course (major, option, pathway, or free elective) that is designated as pathway 7. If this pathway is already met, students must take a free elective to meet the 125-credit hour requirement.