JMU College of Business Advising Checklist Computer Information Systems, BBA

A Bachelor of Business Administration (BBA) in Computer Information Systems (CIS) from James Madison University requires a minimum of 120 credit hours of undergraduate coursework, comprised of the following:

BBA Core (45 credit hours)

CIS Major (27-28 credit hours)

□ JMU General Education Program (35-41 credit hours): <u>https://www.jmu.edu/gened/</u>

Electives to meet the minimum 120 credit hours (minimum of 60 from a 4-year school, minimum of 30 from JMU)

This document is provided as an advising resource only. Official curriculum requirements are listed in the JMU Undergraduate Catalog: <u>https://www.jmu.edu/catalog/</u> In the case of discrepancies, the University Catalog is the official curriculum students must follow. This document was reviewed by the Director of the CoB Advising and Support Center on September 1, 2024. For more information contact the CoB Advising and Support Center: <u>https://www.jmu.edu/cobasc</u>.

Bachelor of Business Administration (BBA) Core Requirements

All students seeking a BBA degree must complete all the BBA core components (45 credit hours) and be formally accepted to the CoB as a part of their degree program. The BBA core components are broken down into two groups, the lower-level core (completed before formal acceptance) and the upper-level core (completed after formal acceptance).

BBA Core Progression: Formal Acceptance to the CoB

To be formally accepted to the College of Business, students seeking a BBA degree must complete the following requirements.

Complete all lower-level BBA core requirements. No lower-level core course may be attempted more than two times.

Earn a BBA GPA of at least a 2.7 earned in lower-level BBA core courses excluding calculus and COB 242. The university policy for calculating repeat credit and repeat forgiveness will be honored. Only grades received at JMU are used in the GPA calculation.

□ Complete a COB 300 application by the deadline for the semester they intend to enroll in COB 300.

The BBA GPA calculator, COB 300 application, and more information are available here: <u>https://www.jmu.edu/cob/asc/advising/formal-acceptance.shtml</u>

Lower-Level BBA Core Requirements (27 credit hours completed before formal acceptance)

Class	Credits	Pre-Requisite(s) and/or Co-Requisite(s)
COB 191 – Business Analytics I ¹	3	Pre: MATH 155, calculus, or sufficient score on math placement exam
COB 202 – Interpersonal Skills	3	Pre: Sophomore standing
COB 204 – Computer Information Systems	3	
COB 241 – Financial Accounting	3	Pre: Sophomore standing
COB 242 – Managerial Accounting	3	Pre: COB 241
COB 291 – Business Analytics II	3	Pre: Calculus and COB 191 or equivalent
ECON 200 – Introduction to Macroeconomics ²	3	
ECON 201 – Introduction to Microeconomics	3	
MATH 205 or MATH 235 – Calculus ³	3	Pre: MATH 135/155 or sufficient score on Math Placement Exam
	Total 27	

¹MATH 220 or MATH 229 may be substituted for COB 191. If COB 191 and a substitute are taken and a grade is earned in both, only the COB 191 grade will be used in the BBA GPA calculation.

² ECON 200 also fulfills the Cluster Four Global Experience (C4GE) General Education requirement.

³ MATH 231, MATH 233, or ISAT 151 also fulfills the calculus requirement. Calculus also fulfills the Cluster 3 Quantitative Reasoning (C3QR) General Education requirement.

Upper-Level BBA Core Requirements (18 credit hours completed after formal acceptance)

Class	Credits	Pre-Requisite(s) and/or Co-Requisite(s)
COB 300A – Integrative Business: Management ¹	3	Pre: formal acceptance to the CoB
COB 300B – Integrative Business: Finance ¹	3	Pre: formal acceptance to the CoB
COB 300C – Integrative Business: Operations ¹	3	Pre: formal acceptance to the CoB
COB 300D – Integrative Business: Marketing ¹	3	Pre: formal acceptance to the CoB
COB 318 – Legal & Ethical Environment of Business	3	Co: COB 300
COB 487 – Strategic Management	3	Pre: COB 318, senior standing, completion of at least one full
		semester after COB 300

Total 18

¹COB 300 courses are taken concurrently during the semester immediately following formal acceptance.

Computer Information Systems (CIS) Major Requirements

CIS majors complete a minimum of 27-28 credit hours of major-specific coursework. All CIS majors complete the CIS major core (15 credit hours) and a concentration (12-13 credit hours). **Except for CIS 221, students must be formally accepted to the College of Business before they can take CIS major courses.** It is advised that students complete CIS 221 before COB 300.

CIS Major Core

Class	(Credits	Pre-Requisite(s) and/or Co-Requisite(s)
CIS 221 – Principles of Programming ¹		3	
CIS 304 – Enterprise Architecture		3	Co: COB 300
CIS 330 – Database Design and Application		3	Pre: COB 300 and C or better in CIS 221 or equivalent
CIS 454 – Systems Analysis and Design		3	Co: CIS 304 and CIS 330
CIS 484 – IS Development & Implementation		3	For all concentrations, Pre: C or better in CIS 330, Co: CIS 454;
			For IS concentration only, C or better in CIS 331
	Total	15	

Required Concentration (choose 1)

Business Analytics (BSAN) Concentration

Class	(Credits	Pre-Requisite(s) and/or Co-Requisite(s)
BSAN 390 – Statistical Modeling for BSAN		3	Pre: B- or better in COB 291, junior or senior standing
BSAN 391 – Decision Modeling for BSAN		3	Pre: C or better in BSAN 390
BSAN 393 – Data Mining for BSAN		3	Pre: C or better in BSAN 390
CIS 463 – Business Intelligence		3	Pre: C or better in CIS 330
	Total	12	

Information and Cybersecurity Management (ICM) Concentration

Class	Credits	Pre-Requisite(s) and/or Co-Requisite(s)
CIS 301 – Cloud Server Management	1	Co: COB 300
CIS 320 – Principles of Computing Networks	3	Co: CIS 304
CIS 424 – Computer Security Management	3	Pre: CIS 304; C or better in CIS 221 or equivalent
CIS 425 – Defensive Cybersecurity	3	Co: CIS 320
CIS 420, CIS 428, CIS 434, or CIS 464 (choose 1) ²	3	Requisites differ by class, see course catalog
Total	13	

Information Systems (IS) Concentration

Class	Credits	Pre-Requisite(s) and/or Co-Requisite(s)
CIS 301 – Cloud Server Management	1	Co: COB 300
CIS 320 – Computing & Telecom Networks	3	Co: CIS 304
CIS 331 – Intermediate Computer Programming	3	Co: CIS 330
CIS elective ³	3	
CIS elective ³	3	
Total	13	

¹ CS 139, CS 149, IA 241, or ISAT 252 may be substituted if a C or better was earned. CS 159 may be substituted with any grade.

² CIS 498 – Special Topics may be substituted if topic is related to cybersecurity and approved by CIS-BSAN Department Head.

³ CIS electives include any 300-level or 400-level CIS course not already required by CIS core or IS concentration. A complete list of CIS courses is available in the course catalog: <u>https://www.jmu.edu/catalog/index.shtml</u>