

1 st Semester - First Year		2 nd Semester - First Year	
ENG 1010 MTH 1310 COMM 1010 or COMM 1100 BUS 1850 CIS 1010*	Freshman Comp: Composing Arguments Finite Math for Mgmt & Soc Science Presentational Speaking or Fund. of Oral Communication Intro to Business Intro to Computers (*or gen elect if 75+ on CIS Placement Test)	ENG 1020 MTH 1320 BUS 1950 _____ _____	Freshman Comp: Analysis, Research & Doc. Calculus for Mgmt & Soc Science Business Communication Arts and Humanities Natural & Physical Science
1 st Semester - Second Year		2 nd Semester - Second Year	
_____ ECO 2010 ACC 2010 CIS 2010 MGT 2210	Natural & Physical Science Principles of Economics - Macro Principles of Accounting I Foundations of Information Systems Legal Environment of Business I	ECO 2020 ACC 2020 CIS 2110 _____ HIS _____	Principles of Economics - Micro Principles of Accounting II Structured Problem Solving in Information Systems Arts and Humanities Historical Studies Elective
1 st Semester - Third Year		2 nd Semester - Third Year	
CIS 3300 CIS 2500 CIS 3060 MGT 3000 BUS 3040	Business Analytics I Security Essentials Database Management Systems Organizational Management Global Corporate Social Responsibility & Sustainability	CIS 3320 FIN 3300 MKT 3000 CIS 3145 CIS 3350	Business Analytics II Managerial Finance Principles of Marketing Business Application Development Knowledge Discovery and Data Mining
1 st Semester - Fourth Year		2 nd Semester - Fourth Year	
CIS 4060 CIS 3460 MKT 3010 _____ _____	Advanced Database Management Systems Data Warehousing and Mining Marketing Research Elective Elective	MGT 4950 CIS 4370 _____ _____	Strategic Management Data Science and Big Data Analytics Elective Elective

Note: General elective credits may vary. Total general electives must be sufficient for the student to meet the required University minimum of 120 credit hours. These hours may be used to meet requirements for a minor or a concentration. As per University policy, no more than 16 semester hours in human performance and sport activities (HPL), 4 semester hours of varsity sports (ATH), and no more than 7 semester hours in music ensemble courses will be counted toward the degree.

MULTICULTURAL/GLOBAL DIVERSITY REQUIREMENTS: The University's multicultural and global diversity requirements must be satisfied by taking an approved course listed in the *University Catalog*.

MINORS FOR BUSINESS MAJORS: Majors in the College of Business are NOT required to complete a minor at MSU Denver. Please see an advisor if you have questions about requirements involved with taking a minor.

SUGGESTED CIS CAREER ROADMAP

First Year (0-29 Credits - EXPLORE)

- Meet with a Career Counselor at Classroom to Career Hub (AD 270)
- Take a Career Test & Attend a Career GPS workshop

Second Year (30-59 Credits – EXPLORE)

- Complete your Roadrunner Road map Form (available at MSUDenver.edu/career)
- Research occupations, attend Employer Panels, learn to write a resume/post on JobLink
- Meet with the College of Business Career Advisor

Third Year (60-89 Credits – EXPERIENCE)

- Review your Skills Checklist, practice interviewing & join our AITP student chapter, and listen to OTF Podcast
- Participate in research, study abroad, service learning, or an internship through the C2Hub

Fourth Year (90-120 Credits – EXECUTE)

- Update your profiles on JobLink and LinkedIn; attend career fairs
- Develop a job search strategy, connect with employers & apply for positions

Please note: Prerequisites for courses on this sheet may change. Prior to registering for a course you must have completed the prerequisites currently enforced for that course. Please check the online catalog prior to registering each semester.

This sheet applies to the 2023-2024 Catalog *only*. Students with a declared major in Business Intelligence should work with an advisor in the College of Business or the department on course selection and sequencing to ensure timely graduation.

General Studies	34
Business core	45
Additional College of Business requirements	6
Major courses	27
General Electives	9-12
Total to graduate (min. 40 hrs upper division)	120 min

Students who have reached junior standing (60 hrs) should request a Degree Progress Report and review it with a faculty advisor in the Department of Computer Information Systems and Business Analytics.

GENERAL STUDIES

Written Communication (WC)

___ -3 (typically ENG 1010)

___ -3 (typically ENG 1020)

Oral Communication (OC)

___ COMM 1010-3 Presentational Speaking or

___ COMM 1100-3 Fund. of Oral Communication

Quantitative Literacy (QL)

___ MTH 1310-4 Finite Math for Mgt. & Social Sciences

Note: MTH1110 or MTH1400 is acceptable for transfer students or students changing their major. Consult with a math faculty advisor for approval.

Arts and Humanities

___ -3

___ -3

Historical

___ -3

Natural and Physical Sciences

___ -3

___ -3

Social and Behavioral Sciences I

___ ECO 2010-3 Principles of Economics: Macro (QL, WC)

Social and Behavioral Sciences II

___ ECO 2020-3 Principles of Economics: Micro (QL, WC)

Global Diversity (must be satisfied within General Studies)

Multicultural (may be satisfied within General Studies, major, minor or elective)

Additional College of Business Requirements (6 credits)

___ COMM 1010, Presentational Speaking, or COMM 1100, Fundamentals of Oral Communication*

___ MTH 1320, Calculus for MGT & Social Sciences or MTH 1410, Calculus I or Higher [MTH 1320 requires completion of Finite Math, College Algebra, or Pre-Calculus as a prerequisite]

*This class also counts towards a General Studies requirement.

GENERAL ELECTIVES (9-12 hours)

BUSINESS CORE 45 credits. In order to graduate, students must maintain a 2.0 average inside the Business Core.

___ BUS 1850 Intro to Business

___ BUS 1950 Business Comm. (COMM 1010 or COMM 1100, ENG 1010, Coreq ENG 1020) (The following business core courses require completion of Written Communication, Quantitative Literacy & Oral Communication requirement unless otherwise noted)

___ BUS 3040 Global Corporate Social Responsibility & Sustainability

___ ACC 2010 Principles of Accounting I

___ ACC 2020 Principles of Accounting II (ACC 2010, MTH 1310 or MTH 1110)

___ CIS 2010 Foundations of Information Systems (CIS 1010 or CIS test, Coreq. QL)

___ CIS 3300 Business Analytics I (MTH 1320, CIS 2010, 60 hrs)

___ CIS 3320 Business Analytics II (CIS 3300)

___ ECO 2010 Principles of Macroeconomics

___ ECO 2020 Principles of Microeconomics

___ FIN 3300 Managerial Finance ACC 2010, ECO 2010 & 2020, MTH 1320, 60 hrs)

___ MGT 2210 Legal Environment of Business I (Coreq QL)

___ MGT 3000 Organizational Management (60 Credit hrs)

___ MKT 3000 Principles of Marketing (60 Credit hrs)

Senior Experience

___ MGT 4950 Strategic Management (Senior / Completion of Business Core)

Note: All business core courses must be completed with a grade of "C-" or better.

MAJOR COURSES

___ CIS 2110-3 Structured Problem Solving in Information Systems (CIS 2010)

___ CIS 2500-3 Security Essentials (CIS 2010)

___ CIS 3060-3 Database Management Systems (CIS 2110)

___ CIS 3145-3 Business Application Development (CIS 2110)

___ CIS 3350-3 Knowledge Discovery and Data Mining (CIS 3300 & JU standing)

___ CIS 3460-3 Data Warehousing and Mining (CIS 3300 & CIS 3060 or ACC 3300)

___ CIS 4060-3 Advanced Database Management Systems (CIS 3060 & CIS 3145)

___ CIS 4370-3 Data Science and Big Data Analytics (CIS 3300, CIS 3460, & JU Standing)

___ MKT3010-3 Marketing Research (BUS 1950, MKT 3000, and JU Standing)

Elective/Complementary Courses

9 -12 credits of general electives (depending on the student's need to take CIS 1010 or not, based on an appropriate score on the Computer Literacy exam)

To earn a Bachelor of Science degree in Business Intelligence, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT and MKT and a course number of 2000 or higher.