1st Semester - First Year		2 nd Semester - First Year	
ENG 1010 MTH 1310 COMM 1010 or COMM 1100 BUS 1850	Freshman Comp: Composing Arguments Finite Math for Mgmt & Soc Science Presentational Speaking or Fund. of Oral Comm Intro to Business Natural & Physical Science	ENG 1020 MTH 1320 CIS 1010* BUS 1950	Freshman Comp: Analysis, Research & Doc. Calculus for Mgmt & Soc Science Intro to Computers (*or gen elect if 75+ on CIS Placement Test) Business Communication Arts and Humanities
1st Semester - Second Year		2 nd Semester - Second Year	
ECO 2010 ACC 2010 CIS 2010 MGT 2210 1st Semester - Third Year CIS 3300 CIS 2050	Natural & Physical Science Principles of Economics - Macro Principles of Accounting I Foundations of Information Systems Legal Environment of Business I Business Analytics I	ECO 2020 ACC 2020 CIS 2110 HIS 2nd Semester - Third Y	Business Analytics II
CIS 3050 CIS 3230 MGT 3000 BUS 3040	Fundamentals of Systems Analysis and Design Telecommunication Systems and Networking Organizational Management Global Corporate Social Responsibility & Sustainability	FIN 3300 MKT 3000 CIS 3060 CIS 3500	Managerial Finance Principles of Marketing Database Management Systems Information Systems Security
1st Semester - Fourth Year		2 nd Semester - Fourth Year	
CIS 3145 CIS CIS	Business Application Development CIS Upper Division Elective CIS Upper Division Elective Elective Elective	MGT 4950 CIS 4050 CIS	Strategic Management Systems Analysis and Design CIS Capstone Course (CIS 4xxx level elective) 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 <u>approved</u> 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 Career Services (Tivoli 215)
- Take a Career Test & Attend a Career GPS workshop

Second Year (30-59 Credits – EXPLORE)

- Complete your Roadrunner Roadmap 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
- Participate in research, study abroad, service learning, or an internship through the Applied Learning Center

Fourth Year (90-120 Credits – EXECUTE)

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

Catalog 20-21

CIS 4500-3 Info Sys Security Tools & Tech

CIS 4550-3 Info Sys Scrty Mgt & Info Asurnc

Computer Information Systems, B.S.

303-615-0660 Admin 590

Please note: Prerequisites for courses on this sheet may change. Prior to registering for a course you must have completed the prerequisites <u>currently</u> enforced for that course. Please check the online catalog prior to registering each semester. The following concentrations are available to CIS Students: Application Development, Business Analytics, Database Development and Administration, Information Systems Security, Network Systems and Administration or Web Development and Administration.

General Studies 34 Students who have reached junior This sheet applies to the 2020-2021 Catalog only. Students with a Business core 36 standing (60 hrs) should request a declared major in Computer Information Systems should work with an 6 Additional College of Business requirements Degree Progress Report and review it Major courses 30 with a faculty advisor in the advisor in the College of Business or the department on course **General Electives** 14 Department of Computer Information selection and sequencing to ensure timely graduation. Total to graduate (min. 40 hrs upper division) 120 min Systems and Business Analytics. **GENERAL STUDIES BUSINESS CORE** (required pre-regs for each course listed) BUS 1850-3 Intro to Business-*transfer students coming in with 6+ credits of business courses do not Written Communication (WC) need to take BUS 1850 but will need another CBUS course outside of major and bus core. -3 (typically ENG 1010) ystems BUS 1950-3 Business Communication (CAS 1010 or 1710, ENG 1010, ENG 1020 Co-reg or pre-reg) -3 (typically ENG 1020) The following business core courses require completion of ENG 1020, Oral Com (OC), and Quantitative Lit (QL), Oral Communication (OC) unless otherwise noted Presentational Speaking or COMM 1010-3 ACC 2010-3 Principles of Accounting I (no OC) COMM 1100-3 Fund. of Oral Comm Principles of Accounting II (ACC 2010) ACC 2020-3 Ś CIS 2010-3 Foundations of Information Systems (CIS 1010 or CIS test, QL Co-reg) Quantitative Literacy (QL) CIS 3300-3 Business Analytics I (MTH 1320 or 1410, CIS 2010 or CIS 2300, 60 hrs) **Somputer Information** MTH 1310-4 Finite Math for Mgt. & Social Sciences Business Analytics II (CIS 3300, 60 hrs) CIS 3320-3 Note: MTH1110 or MTH1400 is acceptable for transfer students or students FIN 3300-3 Managerial Finance (ACC 2010, ECO 2010 & 2020, MTH 1320 or 1410, 60 hrs) changing their major. Consult with a math faculty advisor for approval. MGT 2210-3 Legal Environment of Business I (QL Co-reg) MGT 3000-3 Organizational Management (60 Credit hrs) Arts & Humanities MKT 3000-3 Principles of Marketing (60 Credit hrs) -3 Strategic Management (Senior/ Completion of Business Core) MGT 4950-3 -3 Note: All business core courses must be completed with a grade of "C-" or better. Historical **MAJOR COURSES** -3 CIS 2110-3 Structured Problem Solving in Information Systems (CIS 2010) Natural and Physical Sciences CIS 3050-3 Fundamentals of System Analysis & Design (CIS 2110) -3 Database Management Systems (CIS 2110) CIS 3060-3 -3 Business Application Development (CIS 2110) CIS 3145-3 CIS 3230-3 Telecommunications Systems and Networking (CIS 2110) Social and Behavioral Sciences I CIS 3500-3 Information Systems Security (CIS 3230) ECO 2010-3 Principles of Economics: Macro (QL, WC) Systems Analysis and Design (CIS 3050, CIS 3060, CIS 3145, CIS 3230, CIS 3500, 90 CIS 4050-3 Social and Behavioral Sciences II ECO 2020-3 Principles of Economics: Micro (QL, WC) Select 9 hrs of upper-division electives from below in consultation with a faculty advisor: Global Diversity (must be satisfied within General Studies) (at least 3 hours must be a 4000-level course excludes CIS 4050) CIS 3030-3 Business Web Page Dev CIS 4030-3 Web Site Administration Multicultural (may be satisfied within General Studies, major, minor or elective) CIS 3220-3 Analysis of Hardware CIS 4060-3 Adv. Database Mgmt. CIS 3270-3 Adv. Comp Apps for Bus CIS 4160-3 Adv. Programming Seminar CIS 3280-3 Lan/Wan Sys for Bus CIS 4260-3 Database Administration Additional College of Business Requirements (6 credits) CIS 3290-3 Operating Systems End CIS 4280-3 Network Install & Admin. CIS 3310-3 Business Forecasting Methods CIS 4281-3 Network Install & Admin UNIX BUS 3040-3 Global Corporate Social Responsibility & CIS 3350-3 Knowldg Discovry & Data Mining CIS 4370-3 Data Science & Big Data Anlytcs Sustainability (60 Credit hrs) CIS 3460-3 Data Warehouse/ Mining CIS 4410-3 Management Info. Systems MTH 1320-3 Calculus for Management and Social Sciences

CIS 3490-3 Managing Bus. Info, EnterpSys

CIS 3980-3 Internship

GENERAL ELECTIVES (14 hours)