| $1{ }^{\text {st }}$ Semester - First Year |  | $2^{\text {nd }}$ Semester - First Year |  |
| :---: | :---: | :---: | :---: |
| ENG 1010 <br> MTH 1310 <br> COMM 1010 or COMM 1100 <br> BUS 1850 <br> CIS 1010* | Freshman Comp: Composing Arguments <br> Finite Math for Mgmt \& Soc Science <br> Presentational Speaking or Fund. of Oral Comm <br> Intro to Business <br> Intro to Computers (*or gen elect if $75+$ on CIS Placement Test) | ENG 1020 <br> MTH 1320 <br> BUS 1950 <br> -__ <br> -_-_ | Freshman Comp: Analysis, Research \& Doc. <br> Calculus for Mgmt \& Soc Science <br> Business Communication <br> Arts and Humanities <br> Natural \& Physical Science |
| $1{ }^{\text {st }}$ Semester - Second Year |  | $2^{\text {nd }}$ Semester - Second Year |  |
| ECO 2010 ACC 2010 CIS 2010 MGT 2210 | Natural \& Physical Science <br> Principles of Economics - Macro <br> Principles of Accounting I <br> Foundations of Information Systems <br> Legal Environment of Business I | ECO 2020 ACC 2020 CIS 2110 $-\quad-\quad$ HIS | Principles of Economics - Micro <br> Principles of Accounting II <br> Structured Problem Solving in Information Systems <br> Arts and Humanities <br> Historical Studies Elective |
| $1{ }^{\text {st }}$ Semester - Third Year |  | $2^{\text {nd }}$ Semester - Third Year |  |
| CIS 3300 <br> CIS 3050 <br> CIS 3230 <br> MGT 3000 <br> BUS 3040 | Business Analytics I <br> Fundamentals of Systems Analysis and Design Telecommunication Systems and Networking Organizational Management <br> Global Corporate Social Responsibility \& Sustainability | CIS 3320 <br> FIN 3300 <br> MKT 3000 <br> CIS 3060 <br> CIS 3500 | Business Analytics II <br> Managerial Finance <br> Principles of Marketing <br> Database Management Systems <br> Information Systems Security |
| $1{ }^{\text {st }}$ Semester - Fourth Year |  | $2{ }^{\text {nd }}$ Semester - Fourth Year |  |
| CIS 3145 <br> CIS $\qquad$ <br> CIS $\qquad$ $\qquad$ <br> -_-_ | Business Application Development CIS Upper Division Elective CIS Upper Division Elective Elective Elective | MGT 4950 <br> CIS 4050 <br> CIS $\qquad$ $\qquad$ <br> -__ | Strategic Management <br> Systems Analysis and Design <br> CIS Capstone Course (CIS 4xxx level elective) <br> Elective <br> 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 LindkedIn; attend career fairs
- Develop a job search strategy, connect with employers \& apply for positions


## Computer Information Systems, B.S.

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

## GENERAL STUDIES

Written Communication (WC)
-3 (typically ENG 1010)

- $\quad-3$ (typically ENG 1020)

Oral Communication (OC)
$\begin{array}{ll}\text { COMM 1010-3 } & \text { Presentational Speaking or } \\ \text { COMM 1100-3 } & \text { Fund of Oral Comm }\end{array}$
__COMM 1100-3 Fund. of Oral Comm
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.

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Arts & Humanities
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- -3
Historical

Natural and Physical Sciences

$$
\square \quad-3
$$

- $\quad-3$

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 Ora 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 PreCalculus as a prerequisite]
*This class also counts towards a General Studies requirement

GENERAL ELECTIVES (12-15 hours)

| General Studies | 33 | Students who have reached junior |
| :--- | :--- | :--- |
| Business core | 45 | standing (60 hrs) should request a |
| Additional College of Business requirements | $6-7$ | Degree Progress Report and review it |
| Major courses | 27 | with a faculty advisor in the Department |
| General Electives | $12-15$ | of Computer Information Systems and <br> Total to graduate (min. $\mathbf{4 0}$ hrs upper division) <br> (120 min |

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 \& SustainabilityACC 2010 Principles of AccountingACC 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 (Coreg 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)

## MAJOR COURSES

CIS 2110-3 Structured Problem Solving in Information Systems (CIS 2010)
CIS 3050-3 Fundamentals of System Analysis \& Design (CIS 2110)
CIS 3060-3 Database Management Systems (CIS 2110)
CIS 3145-3 Business Application Development (CIS 2110)
CIS 3230-3 Telecommunications Systems and Networking (CIS 2110)
CIS 3500-3 Information Systems Security (CIS 3230)
CIS 4050-3 Systems Analysis and Design (CIS 3050, CIS 3060, CIS 3145, CIS 3230, CIS 3500, 90 hrs
Select 9 hrs of upper-division electives from below in consultation with a faculty advisor: (at least 3 hours must be a 4000-level course excludes CIS 4050)
__ CIS 3030-3 Business Web Page Dev CIS 3220-3 Analysis of Hardware CIS 3270-3 Adv. Comp Apps for Bus
CIS 3280-3 Lan/Wan Sys for Bus CIS 3290-3 Operating Systems End CIS 3310-3 Business Forecasting Methods CIS 3350-3 Knowldg Discovry \& Data Mining CIS 3460-3 Data Warehouse/ Mining CIS 3490-3 Managing Bus. Info, EnterpSys CIS 3980-3 Internship

## Elective/Complementary Courses

## $12-15$ credits of general electives (d

 score on the Computer Literacy exam)