### 1st Semester - First Year
- **ENG 1010**
  - Freshman Comp: Composing Arguments
- **MTH 1310**
  - Finite Math for Mgmt & Soc Science
- **COMM 1010 or COMM 1100**
  - Presentational Speaking or Fund. of Oral Communication
- **BUS 1850**
  - Intro to Business
- **BUS 1950**
  - Natural & Physical Science

### 2nd Semester - First Year
- **ENG 1020**
- **MTH 1320**
- **CIS 1010***
- **BUS 1950**
- **BUS 1950**

### 1st Semester - Second Year
- **ECO 2010**
- **ACC 2010**
  - Principles of Accounting I
- **CIS 2010**
  - Foundations of Information Systems
- **MGT 2210**
  - Legal Environment of Business I
- **Natural & Physical Science**

### 2nd Semester - Second Year
- **ECO 2020**
- **ACC 2020**
- **CIS 2110**
- **CIS 2110**
- **HIS**

### 1st Semester - Third Year
- **CIS 3300**
- **CIS 2500**
- **CIS 3230**
- **MGT 3000**
- **BUS 3040**
  - Business Analytics I
  - Security Essentials
  - Telecommunication Systems and Networking
  - Organizational Management
  - Global Corporate Social Responsibility & Sustainability

### 2nd Semester - Third Year
- **CIS 3320**
- **FIN 3300**
- **MKT 3000**
- **CIS 3060**
- **CIS 3350**

### 1st Semester - Fourth Year
- **CIS 3145**
- **CIS 3460**
- **MKT 3010**
  - Business Application Development
  - Data Warehousing and Mining
  - Marketing Research
  - Elective

### 2nd Semester - Fourth Year
- **MGT 4950**
- **CIS 4060**
- **CIS 4370**
  - Strategic Management
  - Advanced Database Management Systems
  - Data Science and Big Data Analytics
  - Elective

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**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 BI 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 LinkedIn; attend career fairs
- Develop a job search strategy, connect with employers & apply for positions
Business Intelligence, 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.

This sheet applies to the 2020-2021 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.

<table>
<thead>
<tr>
<th>General Studies</th>
<th>34</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business core</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Additional College of Business requirements</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Major courses</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Total to graduate (min. 40 hrs upper division)</td>
<td>120 min</td>
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</tbody>
</table>

### GENERAL STUDIES

<table>
<thead>
<tr>
<th>Written Communication (WC)</th>
<th>-3 (typically ENG 1010)</th>
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</thead>
<tbody>
<tr>
<td>Oral Communication (OC)</td>
<td>COMM 1010-3 Presentational Speaking or COMM 1100-3 Fund. of Oral Communication</td>
</tr>
<tr>
<td>Quantitative Literacy (QL)</td>
<td>MTH 1310-4 Finite Math for Mgt. &amp; Social Sciences</td>
</tr>
</tbody>
</table>

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

| Arts & Humanities | -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)

| BUS 3040-3 | Global Corporate Social Responsibility & Sustainability (60 Credit hrs) |
| MTH 1320-3 | Calculus for Management and Social Sciences |

### BUSINESS CORE (required pre-reqs for each course listed)

| BUS 1850-3 | Intro to Business - transfer students coming in with 6+ credits of business courses do not need to take BUS 1850 but will need another CBUS course outside of major and bus core. |
| BUS 1950-3 | Business Communication (CAS 1010 or 1710, ENG 1010, ENG 1020 Co-req or pre-req) |

The following business core courses require completion of ENG 1020, Oral Com (OC), and Quantitative Lit (QL), unless otherwise noted.

### 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 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) |
| MKT 3010-3 | Principles of Marketing (60 Credit hrs) |
| MKT 3000-3 | Principles of Marketing (60 Credit hrs) |
| MKT 4950-3 | Strategic Management (Senior/ Completion of Business Core) |

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

### ELECTIVE/COMPLEMENTARY COURSES

20 credits of general electives

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 ACCM, ACCM, BNK, BUS, CIS, ECO, FIN, MGT and MKT and a course number of 2000 or higher.