

Business Information Systems & Data Science Dual Major

NOTICE: This "Eastern in 4" worksheet is a planning document only. Students should consult with their faculty advisor and use the Degree Evaluation to obtain an accurate assessment of their progress toward fulfilling graduation requirements.

| | | |
|---|-------|--------------------|
| Name: | Date: | Revised: 10/1/2022 |
| Eastern in 4 Notes | | |
| A degree has GPA, Residency, Major, LAC, Foreign Language, University Writing, and Upper-level requirements. | | |
| Minimum of 120 credits are required to graduate. If you have open space, fill in with "Elective." | | |
| Either LAC Tier I or Tier II Natural Sciences must be completed with a Lab course. | | |
| Major Specific Notes | | |
| Students must maintain a cumulative GPA of 2.5 or higher to remain in the major. | | |
| * Students may complete CSC 180 in lieu of CSC 110; see department for more information/substitution request such as using CSC 202 or 210. | | |
| ** Students may complete CSC 202, 203, 210, or 231 in lieu of CSC 249 or CSC 251; see department for more information/substitution request. | | |
| Two of: BUS 201, 225, 315 or BIS 490; and BIS 377 or BIS 461 meet Eastern's major writing requirements and must be taken in residence. | | |
| A minimum of 24 semester hours of the BIS program must be completed in residence at Eastern. | | |
| Many BIS courses are only offered once a year. Please check the course catalog carefully. | | |

LAC Requirements

Shaded blue box indicates course may count for major requirement and the LAC. Check Degree Evaluation.

| In plan | Course | Title | Requirement | Credit | Rec. Year | Prerequisite |
|-------------------|------------------|---|-------------|--------|------------|-------------------------------|
| LAC Tier I | | | | | | |
| | FYI 100 | First-Year Introduction | FYI | 3 | 1st | Must take in first 15 credits |
| | ENG 100/P | College Writing | T1W | 3 or 5 | 1st | Must take in first 30 credits |
| | MAT 195/P or 195 | Math for Liberal Arts or Calc for Bus/Eco | T1M | 3 or 4 | 1st (Fall) | |
| | | Health and Wellness | T1HW | 2 or 3 | 1st | |
| | | Arts in Context | T1A | 3 | 2nd | |
| | | Literature and Thought | T1LT | 3 | 2nd | |
| | | Historical Perspectives | T1H | 3 | 3rd | |
| | | Natural Sciences | T1NS | 3 or 4 | 1st | |
| | | Social Sciences | T1SS | 3 | 1st | |

| In plan | Course | Title | Requirement | Credit | Rec. Year | Prerequisite |
|---------------------|---------|----------------------------------|-------------|--------|--------------|----------------------------|
| LAC Tier II | | | | | | |
| | | Creative Expression | T2CE | 3 | 2nd | T1A or T1LT |
| | | Cultural Perspectives | T2CP | 3 | 4th | T1A or T1H or T1LT or T1SS |
| | | Natural Sciences | T2NS | 3 or 4 | 3rd | T1NS |
| | BIS 205 | Information Management | T2IT | 3 | 1st (Spring) | T1M |
| | ECO 201 | Principles of Microeconomics | T2IS | 3 | 1st (Spring) | T1SS |
| LAC Tier III | | | | | | |
| | BIS 461 | Seminar: Info Sys & Bus Strategy | T3/W3 | 3 | 4th (Spring) | BIS 370, two T2 LACs |

| In plan | Course | Title | Requirement | Credit | Rec. Year | Prerequisite |
|---------|---------------------|------------------------------------|-------------|--------|---------------|-------------------------|
| | ECO 215 or MAT 216 | Stats for Eco and Bus or Stat Data | Major | 3 | 2nd | T1M (Suggested BIS 205) |
| | ECO 201 | Principles of Microeconomics | Major/T2IS | 3 | 1st (Spring) | T1SS |
| | CSC 110* or CSC 180 | Intro to Computing/Problem Solve | Major | 3 | 1st | |
| | ACC 201 | Principles of Accounting I | Major | 3 | 2nd | |
| | BUS 201 | Principles of Management | Major/W2 | 3 | 1st | T1W |
| | BIS 205 | Information Management | Major/T2IT | 3 | 1st (Spring) | T1M |
| | BUS 225 | Principles of Marketing | Major/W2 | 3 | 2nd | T1W |
| | FIN 245 | Business Finance | Major | 3 | 2nd | ACC 201, T1M or MAT 101 |
| | OSC 260 | Operations Management | Major | 3 | 2nd/3rd | MAT 216 or ECO 215 |
| | BIS 361 | Business Information Systems | Major | 3 | 2nd | BIS 205 |
| | BIS 370 | Systems Analysis and Design | Major | 3 | 2(Sp)/3(Fall) | BIS 205 |
| | BIS 373 | Business Database Management | Major | 4 | 2(Sp)/3(Fall) | BIS 205 |
| | CSC 249 or 251** | Visual Basic.net or Net-centric | Major | 3 | 3rd (Fall) | T1M/ CSC 210 |
| | BIS 375 | Electronic Commerce | Major | 3 | 3rd (Fall) | BIS 361 |
| | BIS 430 | Enterprise Resource Planning | Major | 3 | 4th (Fall) | BIS 370 |
| | BIS 461 | Seminar on Information Systems | Major/T3 | 3 | 4th (Spring) | BIS 370, two T2 LACs |
| | BIS 490 | Internship in BIS | Major/W2+ | 3 | 3rd(Sp)/4th | GPA of 2.5 or higher |

Advanced Elective Courses: **Choose 3 (9 credits)** from the following:
ACC 420, BIS 305, 340, 362, 364, 365, 367, 368, 420, 437, 442, 447, 480, OSC 467

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|---------|--------|----------------------------------|-------------|--------|-----------|--------------|
| In plan | Course | Title | Requirement | Credit | Rec. Year | Prerequisite |
| | BIS | 300+ Elective (1 of 3) from list | Major | 3 | 3rd | |
| | BIS | 300+ Elective (2 of 3) from list | Major | 3 | 3rd | |
| | BIS | 300+ Elective (3 of 3) from list | Major | 3 | 3rd | |

Minor - Recommended but not required
Credits required to complete a minor vary depending upon the minor selected.

| In plan | Course | Title | Requirement | Credit | Rec. Year | Prerequisite |
|---------|--------|-------|-------------|--------|-----------|--------------|
| | | | | | | 0 |

| In plan | Course | Title | Requirement | Credit | Rec. Year | Prerequisite |
|---------|--------|-------|-------------|--------|-----------|--------------|
| | | | | | | 0 |

| 1st year Fall | | | |
|---------------|-------------------------|--------------------------------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| | First-Year Introduction | FYI | 3 |
| | College Writing | T1W | 3 |
| | MAT 195 or 243 | Calculus I or Calculus I for BUS/ECO | 3 |
| | ECO 200 | Principles Of Macroeconomics | 3 |
| | CSC 180 | Fundamentals of Computing | 3 |
| Total | | | 15 |

| 1st year Spring | | | |
|-----------------|---------|------------------------------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| | ECO 201 | Principles of Microeconomics | 3 |
| | MAT 243 | Calculus I with Technology | 4 |
| | BIS 205 | Information Management | 3 |
| | | Health and Wellness | 2 |
| | | | T1HW |
| | CSC 202 | Intro to Programming/Machine Intel | 3 |
| Total | | | 15 |

| 2nd year Fall | | | |
|---------------|--------------------|------------------------------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| | ACC 201 | Principles of Accounting I | 3 |
| | ECO 215 or MAT 216 | Stats for Eco and Bus or Stat Data | 3 |
| | CSC 203 | Advanced Programming for Data Sci | 3 |
| | MAT 342 | Explorations in Data Science | 3 |
| | BIS 361 | Business Information Systems | 3 |
| Total | | | 15 |

| 2nd year Spring | | | |
|-----------------|---------|------------------------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| | OSC 260 | Operations Management | 3 |
| | BIS 370 | Systems Analysis and Design | 3 |
| | BIS 373 | Business Database Management | 3 |
| | BUS 201 | Principles of Management | 3 |
| | EES 300 | Intro to GIS | 3 |
| | EES 301 | Intro to GIS Lab | 1 |
| Total | | | 16 |

| 3rd year Fall | | | |
|---------------|-----------------|--------------------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| | Arts in Context | T1A | 3 |
| | Mat 315 | App. Probability & Stats | 3 |
| | FIN 245 | Business Finance | 3 |
| | BIS 305 | Business Analytics | 3 |
| | BIS 437 | Rapid IT | 3 |
| Total | | | 15 |

| 3rd year Spring | | | |
|-----------------|---------|--------------------------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| | BUS 225 | Principles of Marketing | 3 |
| | CSC 210 | Programming 1 | 3 |
| | | Historical Perspectives | 3 |
| | BIS 447 | Business Intelligence | 3 |
| | MAT 343 | Explorations in Data Analytics | 3 |
| Total | | | 15 |

| 4th year Fall | | | |
|---------------|---------|------------------------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| | BIS 430 | Enterprise Resource Planning | 3 |
| | | Natural Sciences | 3 |
| | | Literature and Thought | 3 |
| | BIS 375 | Electronic Commerce | 3 |
| | | Cultural Perspectives | 3 |
| Total | | | 15 |

| 4th year Spring | | | |
|-----------------|---------|--------------------------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| | BIS 442 | It Project Mgmt. | 3 |
| | BIS 461 | Seminar on Information Systems | 3 |
| | BIS 449 | Data Visualization | 3 |
| | | Creative Expression | 3 |
| | BIS 377 | Org. Website & Data Mgmt. | 3 |
| Total | | | 15 |

Grand Credit Total (120 minimum) 121

Congratulations, Graduate!

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|------------|-------------------|---------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| BIS 490 | Internship in BIS | Major/W2+ | 3 |

Summer Prior to Senior Year.

Super Grand Total Credit: 124

Potential Clep Test