

Computer Science & BIS Dual Majors

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.

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|------------------------------------------------------------------------------------------------------------------------|-------|--------------------|
| 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 unfilled space, fill in with "Elective." | | |
| Either LAC Tier I or Tier II Natural Sciences must be completed with a Lab course. <input type="checkbox"/> | | |
| Major Specific Notes | | |
| CSC 210, CSC 231, and CSC 270 require a minimum grade of C. | | |
| 300- or 400-level CSC courses: either a minimum grade of C in each course or a min. average GPA of 2.3 must be earned. | | |
| Students can take CSC 230 or MAT 230 to fulfill the Discrete Structures requirement. | | |
| CSC 320 and CSC 341 are typically only offered in the Fall semester. | | |
| CSC 335, CSC 440, and CSC 445 are typically only offered in the Spring semester. | | |
| Two from CSC 231, 270, 340; and CSC 450 meet Eastern's writing requirements and must be taken in residence. | | |

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 155/P | Precalculus | T1M | 4 or 5 | 1st | |
| | | Health and Wellness | T1HW | 2 or 3 | 1st | Take in first 60 credits |
| | | Arts in Context | T1A | 3 | 1st | |
| | | Literature and Thought | T1LT | 3 | 2nd | |
| | | Historical Perspectives | T1H | 3 | 2nd | |
| | | Natural Sciences | T1NS | 3 or 4 | 1st | |
| | | Social Sciences | T1SS | 3 | 1st | |
| LAC Tier II | | | | | | |
| | | Creative Expression | T2CE | 3 | 2nd | T1A or T1LT |
| | | Cultural Perspectives | T2CP | 3 | 2nd | T1A or T1H or T1LT or T1SS |
| | | Natural Sciences | T2NS | 3 or 4 | 2nd | T1NS |
| | CSC 210 | Computer Science Programming I | T2IT | 3 | 1st | T1M |
| | | Individuals and Societies | T2IS | 3 | 3rd | T1SS |
| LAC Tier III | | | | | | |
| | CSC 450 | Senior Research | T3 | 3 | 4th | Senior Standing, two T2 LACs |

Computer Science Requirements

| In plan | Course | Title | Requirement | Credit | Rec. Year | Prerequisite |
|---------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------|-------------|--------|-----------|------------------------------|
| Major Prerequisite | | | | | | |
| | MAT 155/P | Precalculus | Elective | 4 or 5 | 1st | |
| Major Requirements | | | | | | |
| | CSC 230 or MAT 243 | Discrete Math CSC or Discrete Structures | Major | 3 | 2nd | MAT 155 |
| | MAT 243 | Calculus I with Technology | Major | 4 | 2nd | MAT 155 |
| | CSC 180 | Fundamentals of Computing | Major | 3 | 1st | |
| | CSC 210 | Computer Science and Programming I | Major/ T2IT | 3 | 1st | CSC 180 or T1M |
| | CSC 231 | Computer Science and Programming II | Major | 3 | 2nd | CSC 210 |
| | CSC 251 | Computer Networking Fundamentals | Major | 3 | 2nd | CSC 210 |
| | CSC 270 | Data Structures | Major | 3 | 2nd | CSC 231 |
| | CSC 320 | Computer Org. and Architecture | Major | 3 | 3rd | CSC 210, CSC 230/MAT230 |
| | CSC 335 | Algorithm Design and Analysis | Major | 3 | 3rd | CSC 270, CSC 230/MAT 230 |
| | CSC 341 | Database and Info. Management | Major | 3 | 3rd | CSC 270 |
| | CSC 440 | Operating Systems | Major | 3 | 4th | CSC 270 |
| | CSC 445 | Software Engineering | Major | 3 | 4th | CSC 270 |
| | CSC 450 | Senior Research | Major/ T3 | 3 | 4th | Senior Standing, two T2 LACs |
| Computer Science Electives (At least 8 credits 300+ CSC, 4 credits can be from the list on the department website) | | | | | | |
| | CSC 300+ | Computer Science Elective (1 of 4) | Major | 3 | 3rd | |
| | CSC 300+ | Computer Science Elective (2 of 4) | Major | 3 | 3rd | |
| | CSC 300+ | Computer Science Elective (3 of 4) | Major | 3 | 4th | |
| | CSC 300+ | Computer Science Elective (4 of 4) | Major | 3 | 4th | |

BIS - Major Requirements (not including CS Requirements listed above)

Credits required to complete a minor vary depending upon the minor selected.

| In plan | Course | Title | Requirement | Credit | Rec. Year | Prerequisite |
|---------|-----------|--------------------------------|-------------|--------|--------------|--------------------------|
| | BIS 205 | Information Management | Major/T2IT | 3 | 1st (Spring) | T1M |
| | ECO 201 | Microeconomics | Major/T2IIS | 3 | 1st (Spring) | T1SS |
| | BUS 201 | Principles of Management | Major | 3 | | |
| | BUS 225 | Principles of Marketing | Major | 3 | | |
| | ACC 201 | Principles of Accounting | Major | 3 | | |
| | FIN 245 | Business Finance | Major | 3 | | ACC 201 |
| | OSC 260 | Operations Management | Major | 3 | | |
| | Stats | Stats (ECO215, MAT216/315) | Major | 3 | 2nd (Fall) | T1M |
| | BIS 361 | Business Information Systems | Major | 3 | 2nd (Spr) | BIS 205 |
| | BIS 370 | Systems Analysis and Design | Major | 3 | 3rd (Fall) | BIS 370 |
| | BIS 373 | Business Database Management | Major | 3 | 1st (Spring) | T1M |
| | BIS 375 | E-Commerce | Major | 3 | 2nd (Fall) | ACC 201 & T1M or MAT 101 |
| | BIS 430 | Enterprise Resource Planning | Major | 3 | 2nd (Spr) | BIS 205 |
| | BI 461 | Seminar on Information Systems | Major | 3 | 3rd (Fall) | BIS 205 |
| | BIS 490 | BIS Internship | Major | 3 | 3rd (Spr) | BIS 305 |
| | BIS 3/4xx | BIS Electives | Minor | 9 | 4th (Fall) | BIS 370 |

| 1st year Fall | | | |
|---------------|---------------------------|---------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| FYI 100 | First-Year Introduction | FYI | 3 |
| MAT 155/P | Precalculus | T1M | 3 |
| ENG 100/P | College Writing | T1W | 3 |
| CSC 180 | Fundamentals of Computing | Both Majors | 3 |
| | Arts in Context | T1A | 3 |
| Total | | | 15 |

| 1st year Spring | | | |
|-----------------|------------------------------------|---------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| BIS 205 | Information Management | Major/T2IT | 3 |
| CSC 210 | Computer Science and Programming I | Both Majors | 3 |
| | Historical Perspectives | T1H | 3 |
| | Natural Sciences T1 with Lab | T1NS | 4 |
| | Social Sciences (i.e. ECO 200) | T1SS | 3 |
| Total | | | 16 |

| 2nd year Fall | | | |
|---------------|-------------------------------------|---------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| CSC 231 | Computer Science and Programming II | Both Majors | 3 |
| | Stats. (ECO215, MAT216 or MAT315) | Major | 3 |
| MAT 243 | Calculus I with Technology | Major | 4 |
| BUS 201 | Principles of Management | Major | 3 |
| BIS 361 | Business Information Systems | Major | 3 |
| | Health and Wellness | T1HW | 2 |
| Total | | | 18 |

| 2nd year Spring | | | |
|-----------------|------------------------------------------|---------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| CSC/MAT230 | Discrete Math CSC or Discrete Structures | Major | 3 |
| ACC 201 | Principles of Accounting | Major | 3 |
| CSC 251 | Computer Networking Fundamentals | Major | 3 |
| CSC 270 | Data Structures | Major | 3 |
| BIS 370 | Systems Analysis and Design | Major | 3 |
| Total | | | 15 |

| 3rd year Fall | | | |
|---------------|------------------------------------------|---------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| CSC 341 | Database and Info. Management | Major | 3 |
| CSC 320 | Computer Org. and Architecture | Major | 3 |
| CSC 335 | Algorithm Design and Analysis | Major | 3 |
| BIS 305 | (Elective 1 - Business Analytics) | Major | 3 |
| FIN 245 | Business Finance | Major | 3 |
| | Individuals and Societies (i.e. ECO 201) | T2IS | 3 |
| Total | | | 18 |

| 3rd year Spring | | | |
|-----------------|-----------------------------------------------|---------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| BIS 373 | Business Database Management | Major | 3 |
| BIS 449 | (Elective 2 - Data Visualization) | Major | 3 |
| | Literature and Thought | T1LT | 3 |
| BIS 447 | (Elective 3 - Business Intelligence & Data S) | Major | 3 |
| CSC 300+ | Computer Science Elective (1 of 4) | Major | 3 |
| | Cultural Perspectives | T2CP | 3 |
| Total | | | 18 |

| 4th year Fall | | | |
|---------------|--------------------------------------------|---------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| CSC 440 | Operating Systems | Major | 3 |
| CSC 445 | Software Engineering | Major | 3 |
| BIS 375 | E-Commerce | Major | 3 |
| BIS 430 | Enterprise Resource Planning | Major | 3 |
| | Natural Sciences | T2NS | 3 |
| BIS 437 | CS Elective (2 of 4) - Rapid IT Dev. Mgmt. | Both Majors | 3 |
| Total | | | 18 |

| 4th year Spring | | | |
|-----------------|------------------------------------------|---------------|------|
| Subj, Crs# | Title | Requirement/s | Crs. |
| CSC 450 | Senior Research** | Major/ T3 | 3 |
| CSC 300+ | Computer Science Elective (3 of 4) | Major | 3 |
| CSC 300+ | Computer Science Elective (4 of 4) | Major | 3 |
| BIS 461 | Seminar on Information Systems | Major T3 | 3 |
| | Creative Expression (i.e. ART 231) | T2CE | 3 |
| | Individuals and Societies (i.e. ECO 201) | T2IS | 3 |
| Total | | | 18 |

120 minimum) **136**
 Calculations, Graduate!