

Cleveland State University
Monte Ahuja College of Business
 Bachelor of Science Degree
Information Systems Major

Fall 2024 – Spring 2025: Recommended Academic Course Sequence

First Year

| Fall Semester | Credits | Major | Gen Ed | Spring Semester | Credits | Major | Gen Ed |
|--|-----------|-------|--------|--|-----------|-------|--------|
| ENG 101 English I | 3 | | W/C | ENG 102 English II | 3 | X | M/QL |
| MTH 148 Mathematics for Business Majors I <i>*Preference MTH 148 OR MTH 167 Precalculus</i> | 3 | X | M/QL | IST 203 Spreadsheet Skills and Applications | 3 | X | |
| BUS 151 The World of Business | 3 | X | | BUS 193 Special Topic: Business Major Experience | 1 | X | |
| Arts and Humanities Elective** | 3 | | A&H | BUS 201 Applied Business Statistics + | 3 | X | M/QL |
| U S Diversity Elective | 3 | | DIV | Natural Science Elective & Lab | 4 | | NS/Lab |
| ASC 101 Introduction to University Life | 1 | | INTRO | | | | |
| Semester Total | 16 | | | Semester Total | 14 | | |

Second Year

| Fall Semester | Credits | Major | Gen Ed | Spring Semester | Credits | Major | Gen Ed |
|---|-----------|-------|--------|--|-----------|-------|--------|
| IST 211 Fundamentals of Systems Development | 4 | X | | IST 311 Advanced Prog of Business System | 4 | X | |
| IST 305 Information Systems in the Business World | 3 | X | | IST 331 Database Design and Implementation | 3 | X | |
| FIN 201 OR ACT 221 (Personal Finance or Accounting I) | 3 | X | | ECN 201 OR ECN 202 Economics | 3 | X | SS |
| GAD 250 Business Communication | 3 | X | WAC | Natural Science Elective | 3 | | NS |
| OSM 202 Introduction to Business Analytics + | 3 | X | | African American Experience Elective | 3 | | DIV |
| Semester Total | 16 | | | Semester Total | 16 | | |

Third Year

| Fall Semester | Credits | Major | Gen Ed | Spring Semester | Credits | Major | Gen Ed |
|--|-----------|-------|--------|---|-----------|-------|--------|
| IST 321 Systems Analysis Methods | 3 | X | | IST 341 Management of Business Network | 3 | X | |
| IST 360 Data Analysis with Python and R | 3 | X | | IST 470 Managing IT Infrastructure | 3 | X | |
| OSM 311 Intro to Operations Management | 3 | X | | MKT 301 Fundamentals of Marketing | 3 | X | |
| Information Systems 300-400 Major Elective | 3 | X | | General Elective: any COB (300/400) discipline area | | | |
| Arts and Humanities Elective** | 3 | | A&H | Information Systems 300-400 Major Elective | 3 | X | |
| Semester Total | 15 | | | Semester Total | 15 | | |

Fourth Year

| Fall Semester | Credits | Major | Gen Ed | Spring Semester | Credits | Major | Gen Ed |
|---|-----------|-------|--------|--|-----------|-------|---------|
| IST 420 Project Management for IS | 3 | X | | IST 465 Capstone Project | 4 | X | WAC/CAP |
| IST 467 Data Mining and Predictive Analytics | 3 | X | | Information Systems 300-400 Major Elective | 3 | X | |
| BUS 351 Bus Society or BLW 411 Business Law | 3 | X | WAC | Information Systems 300-400 Major Elective | 3 | X | |
| Social Science Elective | 3 | | SS | General Elective: any COB (300/400) discipline area | 3 | X | |
| Information Systems 300-400 Major Elective | 3 | X | | BUS 498 Bus Undergraduate Completion Exit Evaluation | 0 | X | |
| Semester Total | 15 | | | Semester Total | 13 | | |
| <i>Apply for Spring graduation prior to Sep 9th</i> | | | | | | | |

Degree Requirements: 120 Credit Hours & required coursework

Fall 2024 – Spring 2025: Bachelor of Business Administration Degree – Information Systems Major Requirements

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency. **College/Program Notes:** Bachelor of Business Administration students are required to complete 120 hours of course work that includes university, college, and major requirements. Adhering to the recommended sequence outlined in this document provides a balanced workload and ensures that students will have the proper prerequisites and knowledge for maximum benefit of the courses required for this program.

BS Degree Academic Grade Requirements: A minimum of a final grade of C or higher is required for the following courses: ENG 100/101, ENG 102, MTH 148 or MTH 167, BUS 201, OSM 202, GAD 250, & BLW 411 or BUS 351 or the courses must be repeated. + Courses BUS 201 and OSM 202 cannot be substituted with other courses. *Preference is completion of MTH 148

Major Requirements: All Information Systems courses at the 300 level and the 400 level require a final grade of “C” or higher or the course must be repeated. The plan above is an enrollment guideline that follows the required College of Business academic guidelines. Also, the plan ensures all General Education, College, University, and Major requirements are met within 4 years of study. General Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a minimum of 120 total credit hours, of which a minimum of 42 credit hours must be upper division (300 or 400-level courses). Depending upon other elective choices made, students may not need as many general electives as indicated above or may need additional electives.

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| University General Education Key: | SS = Social Sciences (two courses from different departments)** |
| INTRO = Introduction to University Life (one course) | A&H = Arts & Humanities (two courses from different departments)** |
| W/C = Writing/Composition (two courses; C or better required) | DIV = Social Diversity (two courses; one US Diversity and one African American Experience) |
| M/QL = Mathematics/Quantitative Literacy (two courses) | WAC/SPAC = Writing/Speaking Across the Curriculum (three courses, one in the major; C or better required) |
| NS = Natural Sciences (two courses, one of which must have a lab) | CAP = Capstone |
| ** One of the four total SS and A&H courses, one must be focused on Africa, Latin America, Asia, or the Middle East (ALAAME) | |

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