

Information Systems

Graduation Requirements Checklist – Fall 2025

Important Policy: All courses taken to satisfy the Information Systems major requirements must be taken for a letter grade and completed with a grade of C or higher. Students may not elect the P/NC option for any of the courses in the major.

Section 1: Information Systems Core Courses

Course Number	Course Title	Grade	Semester
CSE 114	Introduction to Object-Oriented Programming		
CSE 214	Data Structures		
ISE 218	Fundamentals of Information Technology		
ISE 300 or EST 304	Technical Communications		
ISE 312	Legal, Social, and Ethical Issues in Information Systems		
ISE 305	Database Design and Practice		
CSE 310 or ISE 316	Introduction to Networking		
ISE 320 or BUS 340	Information Management		

Upper-Division Electives (Choose 4 Upper-Division ISE or CSE Courses)¹:

1. **Upper-Division Elective 1:** _____
2. **Upper-Division Elective 2:** _____
3. **Upper-Division Elective 3:** _____
4. **Upper-Division Elective 4:** _____

Section 2: Mathematics Courses

Course Number	Course Title	Grade	Semester
AMS 151, MAT 131, MAT 141, <i>or</i> MAT 125/126	Applied Calculus I / Calculus Options		
AMS 161, CSE 215, MAT 132, MAT 142, <i>or</i> MAT 127	Applied Calculus II / Discrete Math / Calculus Options		
AMS 210 <i>or</i> MAT 211	Applied Linear Algebra / Linear Algebra		
AMS 310, ECO 320, <i>or</i> AMS 110	Mathematical Statistics / Probability and Statistics		

Section 3: Specialization Requirement

Students must complete a specialization in one of the defined application areas (**Business & Economics, Technological Systems Management, System & Network Administration, or Digital Media**), or else design a specialization of six to eight courses in another application area in consultation with the ISE Undergraduate Director before the courses for the specialization are completed.

Notes & Residency Requirements

1. **Elective Note:** ISE 475 and ISE 488 may be used to satisfy an ISE upper-division elective requirement, but each course may only be counted once towards the requirement.
2. **Residency Requirement:** At least two courses from among ISE 312, ISE 305, ISE 218, and ISE 320 must be completed at SBU.