

**Jon M. Huntsman School of Business**  
**Information Systems (Effective Fall 2023)**

<p><b>Business Acumen:</b></p> <p>_____ <b>ACCT 2010</b> (3 cr.) Financial Accounting Principles</p> <p>_____ <b>ACCT 2020</b> (3 cr.) Managerial Accounting Principles</p> <p>_____ <b>ECN 1500</b> (3 cr.) Intro to Econ Institutions, History &amp; Principles (BAI)</p> <p>_____ <b>ECN 2010</b> (3 cr.) Introduction to Microeconomics (BSS)</p> <p>_____ <b>FIN 3200</b> (3 cr.) Fundamentals of Finance I (QI)</p> <p>_____ <b>FIN 3300</b> (3 cr.) Fundamentals of Finance II</p> <p>_____ <b>MGT 3350</b> (3 cr.) Legal and Ethical Environment of Business</p> <p>_____ <b>MGT 3050</b> (3 cr.) Foundations of Business: Capitalism, Markets, and Innovation</p> <p>_____ <b>MGT 3700</b> (2 cr.) Operations Management</p> <p>_____ <b>MSLE 3500</b> (3 cr.) Fundamentals of Marketing</p> <p>_____ <b>MSLE 3800</b> (2 cr.) Leadership</p> <p>_____ <b>MSLE 3890</b> (2 cr.) Systems Strategy and Problem Solving</p> <p>_____ <b>BUS 3200</b> (3 cr.) Business Communication (CI)</p> <p>_____ <b>DATA 1100</b><sup>^</sup> (1 cr.) Excel for Business Analysis</p> <p>_____ <b>DATA 2100</b><sup>^</sup> (3 cr.) Data and Information in Business</p> <p>_____ <b>DATA 3100</b> (3 cr.) Making Decisions with Data</p> <p>_____ <b>DATA 3300</b> (3 cr.) Introduction to Modern Data Analytics (QI)</p> <p><small>*C or better required in all Business Acumen courses.  <sup>^</sup>DATA 1100 and DATA 2100 are co-requisite courses.</small></p>	<ul style="list-style-type: none"> <li>• Students must be formally admitted to the Jon M. Huntsman School of Business.</li> <li>• Huntsman School of Business courses are limited to one repeat.</li> <li>• A 2.50 GPA in core and major courses is required for graduation.</li> <li>• For semester availability and prerequisites, see the USU general catalog <a href="http://catalog.usu.edu/">http://catalog.usu.edu/</a>.</li> <li>• All Utah State University graduation requirements must be met. Check USU catalog for more information regarding requirements.</li> <li>• It is strongly recommended that graduation applications be completed two semesters prior to graduation. <a href="http://www.usu.edu/registrar/htm/graduation">http://www.usu.edu/registrar/htm/graduation</a>.</li> <li>• <b>Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are expected to enroll in BUS 1000 during their first year at USU</b></li> </ul>
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<p><b>IS Major Core Requirements:</b></p> <p>_____ <b>DATA 3330</b> Database Management (3 cr)</p> <p>_____ <b>DATA 3400</b> Data Visualization with Tableau (CI) (3 cr)</p> <p>_____ <b>DATA 3500</b> Introduction to Python Programming (3 cr)</p> <p>_____ <b>IS 3600</b> Into to Cloud Computing (3 cr)</p> <p>_____ <b>IS 4250</b> Data Analytics and Information Systems Internship (3 cr)</p> <p>_____ <b>Elective</b> Upper-Division Data or IS course (3 cr)</p> <p><b>IS Major Emphasis (REQUIRED): Students must select one or more of the following emphasis areas</b></p> <ul style="list-style-type: none"> <li>• Web Development</li> <li>• Data Engineering</li> <li>• Cyber Security</li> </ul> <p>Revised 5/3/23</p>	<p><b>Web Development:</b></p> <p>_____ <b>IS 3700</b> UI/UX Experience Web Design (3 cr)</p> <p>_____ <b>IS 5700</b> Client-Side Web Dev. (3 cr)</p> <p>_____ <b>IS 5750</b> Server-Side Web Dev. (3 cr)</p> <p>_____ <b>DATA 5500</b> Advanced Python Programing for Analytics (3 cr)</p> <p><b>Data Engineering:</b></p> <p>_____ <b>DATA 4330</b> Advanced Database &amp; Database Analytics (3 cr)</p> <p>_____ <b>DATA 5330</b> Data Pipeline Engineering (3 cr)</p> <p>_____ <b>DATA 5360</b> Data Warehousing (3 cr)</p> <p>_____ <b>DATA 5500</b> Advanced Python Programing for Analytics (3 cr)</p> <p><b>Cybersecurity:</b></p> <p>_____ <b>IS 3800</b> Cybersecurity I (3 cr)</p> <p>_____ <b>IS 4830</b> Networks: Binary Protocols (3 cr)</p> <p>_____ <b>IS 5800</b> Cybersecurity II (3 cr)</p> <p>_____ <b>IS 5850</b> Enterprise Security (3 cr)</p>	<p><b>Web Development Emphasis:</b> prepares students to design, develop, and deploy web applications through coursework in web interface design (HTML/CSS/JavaScript), advanced server-side application development, API development, and e-commerce strategy. Web development ranks among the most highly demanded information systems skills, as a web presence is essential for virtually all companies.</p> <p><b>Data Engineering Emphasis:</b> develops the skills in programming, database management, and data mining that employers need to support their analytics objectives. Opportunities in Data Engineering are expanding rapidly as companies increasingly rely on data analytics and data science to inform strategy. Data Engineers create organizational and industry-wide access to clean, reliable data at scale with sound data infrastructure and architecture.</p> <p><b>Cybersecurity Emphasis:</b> this emphasis provides hands-on knowledge in programming, information security, network security, design, and architecture, enterprise security, and physical security. Includes hands-on applications with Linux, hacking, and other skills for securing business.</p>
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**UNIVERSITY STUDIES CHECKLIST  
FOR STUDENTS WITH A MAJOR IN THE SOCIAL SCIENCES  
GENERAL EDUCATION**

**COMPETENCY REQUIREMENTS**

Communications Literacy (6 credits)

CL1  ENGL 1010 or  AP English or  ACT English  $\geq$  29 or  CLEP (3)

CL2  ENGL 2010\* (3)

*\*This course must be completed with a C grade or higher.*

Quantitative Literacy (3-4 credits)

MATH 1050\* (4) or  AP Calculus or  ACT MATH  $\geq$  26 or  CLEP

*\*or one MATH or STATS course requiring MATH 1050 as a prerequisite.*

**BREADTH REQUIREMENTS** (21 credits)

Select at least one approved course from each of the following six categories. (A maximum of 4 CLEP or AP areas may be used.)

Approved courses can be found in the USU online catalog.

American Institutions  USU 1300 or  Approved Course ECN 1500 or  AP

Creative Arts  USU 1330 or  Approved Course \_\_\_\_\_ or  AP

Humanities  USU 1320 or  Approved Course \_\_\_\_\_ or  AP

Life Sciences  USU 1350 or  Approved Course \_\_\_\_\_ or  AP

Physical Science  USU 1360 or  Approved Course \_\_\_\_\_ or  AP

Social Science  USU 1340 or  Approved Course ECN 2010 or  AP

Integrated Studies  Approved Course \_\_\_\_\_

**DEPTH REQUIREMENTS** (15 credits)

Required Depth Courses (Two courses outside of major)

3000+ Level Life and Physical Sciences (DSC) Approved Course \_\_\_\_\_

3000+ Level Humanities and Creative Arts (DHA) Approved Course \_\_\_\_\_

Communications Intensive (Two courses, which are part of major)

BUS 3200 Business Communication

DATA 3400 Data Visualization with Tableau

Quantitative Intensive (One course which is part of major)

DATA 3300 Intro. to Modern Data Analytics

**UPPER-DIVISION CREDITS**

Completion of a minimum of 40 credits numbered 3000 or above.