Acquire the tools and training to help organizations leverage technology to solve business problems, innovate, create new products, and achieve strategic objectives.

Admission to the Information Systems major is competitive. Please visit Eccles.Link/IS-Admission for information about admission criteria and policies.

In addition to completing the University of Utah’s and David Eccles School of Business’ Core requirements, students seeking a Bachelor’s Degree in Information Systems must complete the following courses. Students can find full course descriptions and requisite details in the general catalog at catalog.utah.edu and on the class schedule.

Visit Eccles.Link/BCore to see what core you have been assigned and make an appointment with your academic advisor to confirm your path to graduation.

CORE: 18 CREDITS

☐ OIS 3440 – Applications of Business Statistics (QB)
PREREQUISITE: C- or better in OIS 2340
Topics include: designing experiments, goodness of fit, contingency tables, correlation analysis, nonparametric statistics, statistical process control, developing and interpreting regression models, and creating graphical and numerical outputs in Microsoft Excel.

☐ IS 4415 – Data Structures & Java
PREREQUISITES: C- or better in IS 4410 or 4411 and full major status in Information Systems
Topics include: object-oriented computer programming, using the Java programming language; variables; control-flow statements; single-value data structures; lists, sets, hash tables, trees, and graph data structures; and algorithms for searching, sorting, and clustering data.

☐ IS 4420 – Database Fundamentals
PREREQUISITES: C- or better in IS 4410 or 4411 and full major status in Information Systems
Topics include: database theory and design, entity-relationship diagrams (ERD); logical modeling (including normalizing data tables, defining keys, and querying the data); and structured query language (SQL) topics (including aggregates, embedded queries, and joins).

☐ IS 4430 – Systems Analysis & Design
PREREQUISITES: C- or better in IS 4410 or 4411 and full major status in Information Systems
Topics include: information system analysis; tools; the procedures for managing information system analysis projects; the role of the systems analyst in an organization; and concepts, philosophies, trends, tools, and techniques in systems analysis and design.

☐ IS 4440 – Networking & Servers
PREREQUISITES: C- or better in IS 4410 or 4411 and full major status in Information Systems
Topics include: telecommunication systems; management support for networking; data communications; computer network definitions, concepts, and principles (including topologies, protocols, standards, routers, gateways, and cabling); and the benefits, drawbacks, effects, trade offs, and compromises related to data communication technologies.

☐ IS 4460 – Web Based Applications
PREREQUISITE: C- or better in IS 4415 and full major status in Information Systems
Topics include: technologies and tools that assist businesses in using the World Wide Web successfully (including Java programming, JSP, HTML, XML, HTTP, and Web servers and databases).

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ELECTIVE: 3 CREDITS

- 3 credits of electives
  - IS 4470 – Telecommunication & Security
    PREREQUISITE: C- or better in IS 4415 and full major status in Information Systems
  - IS 4480 – Data Warehouse Design & Implementation
    PREREQUISITE: C- or better in IS 4420 and full major status in Information Systems
  - IS 4482 – Data Mining for Business Applications
    PREREQUISITE: C- or better in IS 4420 and full major status in Information Systems
  - IS 4485 – Programming with Python
    PREREQUISITES: C- or better in IS 4410 or 4411 and full major status in Information Systems

GLOBAL PERSPECTIVES: 6 CREDITS

- OIS 5620 – Global Supply Chain Management (IR)
  PREREQUISITE: C- or better in OIS 3660 or 3661
  Topics include: how to improve the performance of an individual firm and the supply chain network (including material flows, information flows, and contractual arrangements) and aligning the inventories, information, and incentives of a supply chain operating in a global context.

- 1 University-approved International (IR) Course