

INFORMATION SYSTEMS
Course Code: 5377
Additional Materials and Resources

[Instructional Materials](#)

Potential book for state adoption: *Principles of Information Systems, 13th Edition*
<https://www.cengage.com/c/principles-of-information-systems-13e-stair/9781305971776PF/>
Principles of Information Systems, 9th Edition - [Free PDF](#)

Online Book: [Information Systems Subtitle: A Manager's Guide to Harnessing Technology](#)

Student Organizations:

[FBLA](#)

[SkillsUSA](#)

Teacher Resources:

[SC 9-12 Computer Science Standards](#)

[CSTA Standards](#)

[Code.org](#)

[CodeHS](#) – coding platform

INTRODUCTION TO INFORMATION SYSTEMS

Website: [Information Systems Design](#)

Lumen Course: [Information Systems](#)

Book (PDF): [Information Systems by Richard T. Watson](#)

Book: [Fundamentals of Information Systems](#) Ch.1

Open Textbook Website: [Information Systems for Businesses and Beyond](#) and [Course Materials](#) (slides, pdfs, quizzes)

Exam: [Final Exam for Information Systems](#) (Quizlet)

SYSTEM COMPONENTS (HARDWARE/SOFTWARE)

Website: [Information System Components](#)

Website: [5 Components of Information Systems](#)

Prezi: [Software and Hardware Components of an Information System](#)

Website: [Examples of Open Source Software](#)

ETHICAL, LEGAL ISSUES

Website: [Experiencing Managing Information Systems](#)

Article: [Ethics In Information Systems: Student Performance In Evaluating Ethical Dilemmas](#)

BIG DATA

Website: <https://towardsdatascience.com/big-data-file-formats-explained-dfaabe9e8b33>

Software: [Tableau](#), an analytics platform

Article: [Forbes “33 Brilliant and Free Data Sources Anyone Can Use”](#)

DATA NORMALIZATION

Tools:

[draw.io](#): Flowchart Maker

MS Access

MySQL

[Normalization competitive games for students](#)

Data Science Dojo: [“The Importance of Data Normalization prior to Analytics”](#)

DATA COLLECTION

[US Census Data Source](#)

Article: [EnerTV, What is IoT Data Collection?](#)

[Cisco: Introduction to IoT](#)

DATA NORMALIZATION

[Quizlet: Data Normalization Quiz](#)

[Data Modeling, Normalization, and Implementation Questions](#)

DATA VISUALIZATION AND ANALYSIS

[Quizlet: Data Analysis Review](#)

LEGAL, ETHICAL ISSUES

[Ethical & Security Issues in Information System](#)

[Ethical and Social Issues in Information Systems](#)

[A Model for Thinking About Ethical, Social, and Political Issues](#)

COMPUTATIONAL MODELS

mySQL

Oracle

SAS

GIS

Microsoft Access

Microsoft Excel

DATA VISUALIZATION AND ANALYSIS

mySQL

Oracle

SAS

GIS

Microsoft Access

Microsoft Excel

PROFESSIONAL DEVELOPMENT

Bureau of Labor Statistics Website - <https://bls.gov>

[O*Net Online Occupational Research](#)

[CTECS Workplace Readiness Skills](#) (click on the links to access resources)

[Quizlet: Information Systems Exam](#)