



Course Syllabus

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Please note that the specifics of this Course Syllabus are subject to change. Instructors will notify students of any changes and students will be responsible for abiding them. Even if you print this syllabus, please check the online version often.

Description

Online IST 210 brings databases to life with a unique approach that focuses not only on constructing databases and using database tools, but also the implications of data uses and issues. This is an introductory course used to teach the fundamentals and basic principles of databases and their related technologies. Throughout this course, students will explore the areas that are fundamental to the design, development, and implementation of enterprise wide information systems. Throughout their exploration, students will develop an understanding of the social, ethical, and legal issues surrounding such implementations.

Goals for the course include:

- Provide an introduction to databases and database technologies.
- Provide the steps of the database creation process.
- Demonstrate the fundamentals of SQL.
- Present issues relating to database management and administration.
- Understand the implications and future directions of databases and database technologies.

Prerequisites

- IST 110

Objectives

Upon completion of this course, students will be able to:

- Discuss the importance of data, databases, and database management.
- Describe the various types of databases and database management systems.
- Create a conceptual database design.
- Refine a conceptual database design.
- Implement a database design.
- Design SQL queries that will be used to create and manipulate data from within a database.
- Describe how database data is stored.
- Discuss the major issues revolving around database management systems.
- Explain the role of a database administrator.
- Discuss the major uses and issues around using databases.
- Summarize how the World Wide Web utilizes databases.

- Identify future trends in database management systems.

Instructor

- Gary Heberling

Instructor information can be found by selecting People in the left menu and selecting the Teacher name.

Please visit your Canvas Inbox for all course-related email, including messages to your instructor(s) and fellow students. Every attempt will be made for the instructor (or a substitute) to respond to email questions within 24 hours.

<https://psu.instructure.com/courses/1729944/users/6023734>

Materials

- Coronel, C. & Morris, S. (2015) *Database Systems: Design, Implementation, & Management* (11th ed.) Boston: Cengage Learning. ISBN 978-1285196145

Assignments & Grading

Course Grading Breakdown

Grading Category	Percentage of Final Grade
Assessments	40%
Labs	40%
Team Project	20%

Course Grading Scale

The following are minimum cutoffs for each grade:

- 93.00% = A
- 90.00% = A-
- 87.00% = B+
- 83.00% = B
- 80.00% = B-
- 77.00% = C+
- 70.00% = C
- 60.00% = D
- less than 60.00% = F

Course Policies and Expectations

- Logging into Canvas - Students are expected to login regularly to check for course updates,

- announcements, emails, discussions, etc.
- Emailing through Canvas - Students are expected to use Canvas for all course email communication.
 - Attending virtual meetings - Students are expected to use specified virtual meeting tool(s) for collaboration, meetings, presentations, etc., as needed.

Technical Requirements

Standard World Campus computer technical specifications are assumed for this course. [Please test your computer](https://courses.worldcampus.psu.edu/public/diagnostics/general.shtml) (<https://courses.worldcampus.psu.edu/public/diagnostics/general.shtml>) for requirements. In addition, a webcam and a headset with a microphone are REQUIRED for the course. These may be used for virtual meetings, virtual office hours, interactions with classmates and your instructor, and team presentations - which are all conducted with virtual meeting tools. No special software is required.

Resources

Find extensive information and links to many resources, including the Penn State library, web conferencing, course tools, writing help, and much more on the [Resources](https://docs.google.com/document/d/1Zsu5Lgaic3kLLiM3co5mxWU5B7IOfu15sppAQvsym6E/pub) (<https://docs.google.com/document/d/1Zsu5Lgaic3kLLiM3co5mxWU5B7IOfu15sppAQvsym6E/pub>) page.

University Policies

Review current information regarding Penn State policies, including Academic Integrity, Disability Accommodations, Military Accommodations, and many others on the [University Policies](https://docs.google.com/document/d/1FIQdII2qw3SJOIgQWTWRByCxSbsnY6DcZA0JHzL4yBk/pub) (<https://docs.google.com/document/d/1FIQdII2qw3SJOIgQWTWRByCxSbsnY6DcZA0JHzL4yBk/pub>) page.

Schedule

The following schedule outlines the topics covered in this course, along with the associated timeframes, readings, activities, and assignments. All due dates reflect Eastern Time (ET). Specifying the time zone ensures that all students have the same deadlines, regardless of where they live.

Date	Details	
Sun Jan 17, 2016	L00: Academic Integrity Quiz (https://psu.instructure.com/courses/1729944/assignments/8523407)	due by 11:59pm
	L00: Activities (https://psu.instructure.com/courses/1729944/assignments/8523415)	due by 11:59pm
	L00: Introductions Discussion Forum (https://psu.instructure.com/courses/1729944/assignments/8523413)	due by 11:59pm
	L00: Student Questionnaire Form (https://psu.instructure.com/courses/1729944/assignments/8523401)	due by 11:59pm
Tue Jan 19, 2016	On Line Live Session with instructor (https://psu.instructure.com/calendar?)	7pm to

	event_id=2583399&include_contexts=course_1729944	8pm
Sun Jan 24, 2016	L01: Activities https://psu.instructure.com/courses/1729944/assignments/8523416	due by 11:59pm
	L01: Chap 1 Assessment https://psu.instructure.com/courses/1729944/assignments/8523412	due by 11:59pm
Sun Jan 31, 2016	L02: Activities https://psu.instructure.com/courses/1729944/assignments/8523417	due by 11:59pm
	L02: Chap 2 Assessment https://psu.instructure.com/courses/1729944/assignments/8523404	due by 11:59pm
	L02: Getting Started Lab https://psu.instructure.com/courses/1729944/assignments/8523418	due by 11:59pm
	Team Contract and MOU https://psu.instructure.com/courses/1729944/assignments/8523439	due by 11:59pm
Tue Feb 2, 2016	On Line Live Session with instructor https://psu.instructure.com/calendar?event_id=2585368&include_contexts=course_1729944	7pm to 8pm
Sun Feb 7, 2016	L03: Activities https://psu.instructure.com/courses/1729944/assignments/8523419	due by 11:59pm
	L03: Chap 3 Assessment https://psu.instructure.com/courses/1729944/assignments/8523403	due by 11:59pm
	L03: Lab 1 https://psu.instructure.com/courses/1729944/assignments/8523420	due by 11:59pm
Wed Feb 10, 2016	On Line Live Session with instructor https://psu.instructure.com/calendar?event_id=2588116&include_contexts=course_1729944	7pm to 8pm
Sun Feb 14, 2016	L04: Activities https://psu.instructure.com/courses/1729944/assignments/8523421	due by 11:59pm
	L04: Chap 4 Assessment https://psu.instructure.com/courses/1729944/assignments/8523400	due by 11:59pm
Sun Feb 21, 2016	L04: Lab 2 https://psu.instructure.com/courses/1729944/assignments/8523422	due by 11:59pm
	Team Initial Report https://psu.instructure.com/courses/1729944/assignments/8523440	due by 11:59pm
Sun Feb 28, 2016	L05: Activities https://psu.instructure.com/courses/1729944/assignments/8523423	due by 11:59pm
	L05: Chap 6 Assessment https://psu.instructure.com/courses/1729944/assignments/8523411	due by 11:59pm

Sun Mar 6, 2016	L05: Lab 3 (https://psu.instructure.com/courses/1729944/assignments/8523424)	due by 11:59pm
Mon Mar 7, 2016	Spring Break Begins (https://psu.instructure.com/calendar?event_id=2574135&include_contexts=course_1729944)	12am
Sun Mar 13, 2016	Spring Break Ends (https://psu.instructure.com/calendar?event_id=2574134&include_contexts=course_1729944)	12am
Sun Mar 20, 2016	L06: Activities (https://psu.instructure.com/courses/1729944/assignments/8523425)	due by 11:59pm
	L06: Chap 7 Assessment (https://psu.instructure.com/courses/1729944/assignments/8523402)	due by 11:59pm
	L06: Lab 4 (https://psu.instructure.com/courses/1729944/assignments/8523426)	due by 11:59pm
Sun Mar 27, 2016	L07: Chap 8 Assessment (https://psu.instructure.com/courses/1729944/assignments/8523405)	due by 11:59pm
	L07: Activities (https://psu.instructure.com/courses/1729944/assignments/8523427)	due by 11:59pm
	L07: Lab 5 (https://psu.instructure.com/courses/1729944/assignments/8523428)	due by 11:59pm
	Progress Report (https://psu.instructure.com/courses/1729944/assignments/8523437)	due by 11:59pm
Sun Apr 3, 2016	L08: Activities (https://psu.instructure.com/courses/1729944/assignments/8523429)	due by 11:59pm
	L08: Chap 09 Assessment (https://psu.instructure.com/courses/1729944/assignments/8523410)	due by 11:59pm
	L08: Lab 6 (https://psu.instructure.com/courses/1729944/assignments/8523430)	due by 11:59pm
Sun Apr 10, 2016	L09: Activities (https://psu.instructure.com/courses/1729944/assignments/8523431)	due by 11:59pm
	L09: Chap 13 Assessment (https://psu.instructure.com/courses/1729944/assignments/8523409)	due by 11:59pm
Sun Apr 17, 2016	L10: Activities (https://psu.instructure.com/courses/1729944/assignments/8523433)	due by 11:59pm
	L10: Chap 14 Assessment (https://psu.instructure.com/courses/1729944/assignments/8523408)	due by 11:59pm
Sun Apr 24, 2016	L09: Lab 7 (https://psu.instructure.com/courses/1729944/assignments/8523432)	due by 11:59pm
	L10: Lab 8 (https://psu.instructure.com/courses/1729944/assignments/8523434)	due by 11:59pm

	L11: Activities (https://psu.instructure.com/courses/1729944/assignments/8523435)	due by 11:59pm
	L11: Chap 15 Assessment (https://psu.instructure.com/courses/1729944/assignments/8523399)	due by 11:59pm
	Flix2You Problem (https://psu.instructure.com/courses/1729944/assignments/8523414)	due by 11:59pm
Fri Apr 29, 2016	Peer Evaluation (https://psu.instructure.com/courses/1729944/assignments/8523436)	due by 11:59pm
	Reflection Report (https://psu.instructure.com/courses/1729944/assignments/8523438)	due by 11:59pm
