Course Syllabus

CIS 250 - Database Theory and Design

COURSE INFORMATION

- Quarter: Fall, 2018
- Credits: 5
- Course Mode: Hybrid course. Tuesdays 6:00pm to 8:40pm
- Course Description: Designed to recognize data as a business resource. Database models are discussed from both a developer's and a user's viewpoint. Topics include: conceptual and logical models, and data normalization through case studies.
- Prerequisites: CIS 102 or instructor permission.

INSTRUCTOR INFORMATION

- Instructor Name: Louis HO
- Office Hours: 1pm - 4pm Tuesday, Thursday
- Office Location: Alderwood Hall 235A
- Phone: 425-640-1308
- Email: louis.ho@email.edcc.edu
- Best Way to Contact: Edmonds CC email.

COURSE MATERIALS

- Textbook
  - Title: Database Concepts, 8th Edition
  - Author: David M. Kroenke
  - Publisher: Prentice Hall
  - Date of Publication: 2017
  - ISBN number: 9780134601533
  -
  - Title: Database Design for Mere Mortals, 3rd Edition
  - Author: Michael J. Hernandez
  - Publisher: Addison-Wesley
  - Date of Publication: 2013
  - ISBN number: 9780321884497
- [Edmonds CC Bookstore (Links to an external site.)Links to an external site.](http://ww.edcc.edu/bookstore): (full URL: [http://ww.edcc.edu/bookstore (Links to an external site.)Links to an external site.](http://ww.edcc.edu/bookstore)).
- Required and/or Optional Materials: You must have regular and timely access to a computer with an internet connection.
- [Computer Resources (Links to an external site.)Links to an external site.](#): Computers are available in a wide variety of locations across campus. The campus also has a wireless

network available for students. See computer facilities (full
URL: http://students.edcc.edu/acs/facilities.html (Links to an external site.)Links to an
external site.) for a complete list of locations and resources, and see START at
www.edcc.edu/online/start for student technical assistance.

LEARNING OBJECTIVES

- **Course-level Learning Objectives (CLOs)**.

1. Describe fundamental principles of database theory and design.
2. Research and analyze business data requirements.
3. Identify and document high-level business rules for data modeling.
4. Create and refine conceptual and logical data models.
5. Select unique identifiers and normalize the data model.
6. Understand the role of SQL in the business and database contexts.

- **Certificate and Degree (Program-level) Learning Outcomes (PLOs)**. • This course is
  part of Computer Information Systems - Web Application and Cloud Developer
  Associate of Technical Arts Degree, and assesses student achievement of these specific
  outcomes:
    o Communication Skills (minimum 5 credits)
        ▪ OUTCOME: Communicate and interact effectively through a variety of
          methods appropriate to audience, context, purpose, and field/discipline.
    o Human Relations and Professional Development Skills (6-7 credits)
        ▪ OUTCOME: Act responsibly in applying professional and academic
          standards associated with personal wellness; sustainable management of
          resources; and/or with success in educational, workplace, community, and
          team settings.
    o Quantitative Analysis/Symbolic Reasoning Skills (minimum 5 credits)
        ▪ OUTCOME: Reason clearly using academic or professional modes of
          inquiry; using quantitative or symbolic reasoning; and/or using other
          discipline/field specific methods to explore and create ideas; identify
          information needs; process, evaluate, and use information; and recognize,
          analyze, and solve problems.
    o Cultural Diversity Skills
        ▪ OUTCOME: Explore and apply multiple perspectives in order to examine
          cultural differences and influences; maintain effective
          professional/working relationships; and/or interact effectively in
          multicultural settings.
    o Program Requirements (75 credits)
        ▪ OUTCOMES:

1. Build and maintain websites.
2. Research, assess, and appropriately apply updated emerging technology to support
   websites as needed in industry.
3. Work with management, development teams, or stakeholders to create websites.

4. Comply with the ethics related to the use of copyrighted materials and intellectual property rights.
5. Demonstrate an entrepreneurial approach to website/page development.
6. Describe, create, and implement databases technologies relative to website development and maintenance.
7. Analyze, implement, and apply the systems development lifecycle (SDLC) methods and tools to meet the website development needs of a business.

COURSE MODE

- **Hybrid Course Sample Description**: This is a hybrid course. A hybrid course is a combination of traditional classroom activities as well as online instruction. Some classroom time is replaced by content and activities that take place in a managed online eLearning classroom. You should also check in on the Canvas course at least 3 times a week. For more information about taking a class a Hybrid course, visit eLearning at EdCC (Links to an external site.)Links to an external site. (full URL: http://www.edcc.edu/elearning (Links to an external site.)Links to an external site.).

ASSIGNMENTS AND GRADING

- **Assessment Criteria and Grading Policies.** Point Distribution: activities (100), assignments (100), discussions (100), quizzes (100), projects (200), exams (400). Total points (1000). Rubrics for the assignments are specified in Canvas. See the Grade Table below for the grade point equivalents.
- **Attendance Policy.** Because this is a hybrid course, you must attend class each week on Campus. In-class labs must be submitted at the end of the class. You should also check in on the Canvas course at least 3 times a week, to be sure that you don't miss any important announcements or information.
- **Make-up or Late Work**. Projects/assignments are due on the date indicated in Canvas. Projects/assignments received late will be marked 50% off if the assignment is not submitted by the stated date on the calendar. After the second week, no late assignment will be accepted. The final project will not be accepted late. No assignments will be accepted after the last class meeting of the quarter. No make-up tests or quizzes will be given unless prearranged. Prearranged is defined as: notifying the instructor of the inability to take the test or quiz before the scheduled time of the test or quiz. You must make up the missed test or quiz within an agreed upon amount of time, no more than one week.
- **Policy on V and I Grades**. These can be found in the online college catalog (Links to an external site.)Links to an external site. (full URL: http://catalog.edcc.edu (Links to an external site.)Links to an external site.) on the Academic Requirements page, under Student Grades.
- **Policy on S, U, and N Grades**. These can be found in the online college catalog (Links to an external site.)Links to an external site. (full URL: http://catalog.edcc.edu (Links to an external site.)Links to an external site.) on the Academic Requirements page, under Student Grades.

- **Plagiarism Reference**. Reference Information (Links to an external site.)Links to an external site. (full URL: /syllabus/plagiarism-overview.html (Links to an external site.)Links to an external site.).
- **Institutional Withdrawal Policy**. Please see Instructor-Institutional Withdrawal Policy (Links to an external site.)Links to an external site.
- Please see the **Student Rights, Freedoms and Responsibilities** in the Edmonds CC online academic catalog: Edmonds Community College Policies (Links to an external site.)Links to an external site. (full URL: http://catalog.edcc.edu/content.php?catoid=23&navoid=6810 (Links to an external site.)Links to an external site.). This document includes Guidelines for Student Conduct and information on disciplinary procedures.

- **GRADE TABLE**

Grade Points for Percentage of Points earned | | | Letter Grade Equivalency

4.0=95%	2.9=84%	1.8=73%	A = 4.0 - 3.9
3.9=94%	2.8=83%	1.7=72%	A- = 3.8 - 3.5
3.8=93%	2.7=82%	1.6=71%	B+ = 3.4 - 3.2
3.7=92%	2.6=81%	1.5=70%	B = 3.1 - 2.9
3.6=91%	2.5=80%	1.4=69%	B- = 2.8 - 2.5
3.5=90%	2.4=79%	1.4=68%	C+ = 2.4 - 2.2
3.4=89%	2.3=78%	1.4=67%	C = 2.1 - 1.9
3.3=88%	2.2=77%	1.3=66%	C- = 1.8 - 1.5
3.2=87%	2.1=76%	1.2=65%	D+ = 1.4 - 1.2
3.1=86%	2.0=75%	1.1=64%	D = 1.1 – 1.0
3.0=85%	1.9=74%	1.0=63%	F = 0.0

STATEMENT ON ACADEMIC INTEGRITY

Edmonds CC students shall demonstrate Academic Integrity. I am expected to report all violations of Academic Integrity (cheating and plagiarism) to the College. The College's database of such incidents will be monitored by the Office of the Vice President for Student Services. Data will be maintained for three years. Evidence of repeat incidents will result in additional action by the Office of the Vice President for Student Services as governed by the Student Code of Conduct. In this class, cheating and plagiarism will result in an assignment or grade penalty ranging from "0" on an assignment to an "F" in the course.

FINAL EXAM AND LAST MEETING OF CLASS

- The final exam will be in-class on WEEK TWELVE, Dec 4, 2018, Tuesday, 6 pm, at SNH-0124.

SERVICES FOR STUDENTS WITH DISABILITIES

If you require an accommodation for a disability, please contact Services for Students with Disabilities at MLT 159, 425.640.1320 or **ssdmail@edcc.edu**.

COURSE EXPECTATIONS

- Students:
  - Submit all assignments by the due dates specified in Canvas.
  - Send all assignments in Canvas.
  - Ensure your name is on your assignment at the top of the first page.
  - Check the eLearning course site at least 3 times a week.
- Instructor:
  - I will return email messages within 24 hours, usually much sooner.
  - I will grade and return all assignments within seven days.
  - I will monitor the discussion board on a daily basis.
  - I will post all grades and points on the eLearning course student grade book.
- Successful completion of student responsibilities in this class requires class attendance and online access to Canvas. You are expected to attend class and log in to your online classroom at least 3 times per week for a minimum of 2 hours. Instructions for access to Canvas and student technical support (Links to an external site.)Links to an external site. (full URL: http://www.edcc.edu/elearning (Links to an external site.)Links to an external site.).

STUDENT RESOURCES

Useful **Student Resources** (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/students** (Links to an external site.)Links to an external site.)

Academic Calendar (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/calendar/academic.html** (Links to an external site.)Links to an external site.)

Advising (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/advising** (Links to an external site.)Links to an external site.)

Center for Student Engagement and Leadership (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/csel** (Links to an external site.)Links to an external site.)

College Policies and Procedures (Links to an external site.)Links to an external site. (full URL: **http://catalog.edcc.edu/content.php?catoid=23&navoid=6810** (Links to an external site.)Links to an external site.)

Counseling and Resource Center (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/counseling** (Links to an external site.)Links to an external site.)

Diversity Student Center (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/dsc** (Links to an external site.)Links to an external site.)

eLearning Information (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/elearning** (Links to an external site.)Links to an external site.)

Enrollment Services (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/es** (Links to an external site.)Links to an external site.)

Library, including online resources (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/library** (Links to an external site.)Links to an external site.)

Services for Students with Disabilities (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/ssd** (Links to an external site.)Links to an external site.)

Student Printing Information (Links to an external site.)Links to an external site. (full URL: **http://students.edcc.edu/acs/printing** (Links to an external site.)Links to an external site.)

Student Support Resources (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/support** (Links to an external site.)Links to an external site.)

TRIO (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/trio** (Links to an external site.)Links to an external site.)

Title IX and Gender Discrimination (full URL: **http://www.edcc.edu/titleix/what-is-titleix/definitions/gender-discrimination.html** (Links to an external site.)Links to an external site.)

Emergency Preparedness

The **Triton Alert System** (Links to an external site.)Links to an external site. (full URL: **http://www.edcc.edu/alert/triton** (Links to an external site.)Links to an external site.) will be used to send notifications regarding campus closures, emergency situations, or evacuation orders in the event of an emergency or inclement weather. Edmonds CC students and employees are automatically enrolled to receive Triton Alerts through their college email addresses. Sign up to receive text and voice messages on your mobile or home phones and/or additional email notifications to personal email addresses.

If inclement weather prevents me from getting to campus (and the college is open), I will leave an announcement in our eLearning class. I will try to get this information to you as early as possible so you don't come to campus and find that the class has been canceled. However, be sure to check the college's website to see if the college is closed and all classes are canceled.

Important Dates

Edmonds CC Academic Calendar: **http://www.edcc.edu/calendar/academic.html** (Links to an external site.)Links to an external site..

Fall Quarter 2018

Date	Event
Sep. 3	**Labor Day Holiday: College Closed**
Sep. 17	**Fall quarter classes begin (Financial Aid deadline for this quarter: July 16, 2018)**
Sep. 19	**Last day online registration available for adding classes (after this date, instructor's permission needed to add most classes and waitlists are disabled)**
Sep. 21	**Financial Aid students must finalize their enrollment status by this date**
Sep. 21	**Last day for 100% refund (self-support classes have different dates)**
Sep. 28	**Graduation application submission deadline**
Sep. 28	**Last day before late petition required to register unless otherwise posted in schedule**
Sep. 28	**Last day to drop a class without a transcript entry**
Oct. 5	**Last day for 50% refund (self-support classes have different dates)**
Oct. 5	**Non-instructional Day (no classes): College Open**
Oct. 26	**Non-instructional Day (no classes): College Open**
Nov. 6	**Graduation packets due from advisors**
Nov. 6	**Last day to withdraw, add a continuous enrollment class, or change credit/audit status**
Nov. 8	**Registration for winter quarter begins**
Nov. 12	**Veterans Day Holiday: College Closed**
Nov. 15	**Winter quarter 2019 financial aid application deadline**
Nov. 15	**Open enrollment for winter quarters begins**
Nov. 21	**Non-instructional Day (no classes): College Open**
Nov. 22	**Thanksgiving Holiday: College Closed**
Nov. 23	**Native American Heritage Day: College Closed (no Saturday classes)**
Nov. 24	**Thanksgiving Holiday: College Closed (no Saturday classes)**
Dec. 3	**Web grading available to instructors through instructor briefcase**
Dec. 4	**Final exams**
Dec. 5	**Final exams**
Dec. 6	**Final exams**
Dec. 7	**Final exams**
Dec. 7	**Last day of fall quarter**

Dec. 12 **Grades are due**

Dec. 14 **Grades available to students online**

Dec. 20 **Winter Holiday: College Closed**

Dec. 21 **Winter Holiday: College Closed**

Dec. 22 **Winter Holiday: College Closed**

Dec. 23 **Winter Holiday: College Closed**

Dec. 24 **Winter Holiday: College Closed**

Dec. 25 **Winter Holiday: College Closed**

Dec. 26 **Winter Holiday: College Closed**

Course Summary:

Date	Details	
Tue Sep 18, 2018	[Database Lab 1](#) due by 9pm	
Tue Sep 25, 2018	[Chapter 1 Getting Started, Discussion (DATABASE CONCEPTS By KROENKE)](#)	due by 6pm
	[Chapter 1 Getting Started, Practice Review Quiz (DATABASE CONCEPTS By KROENKE)](#)	due by 6pm
	[Chapter 1 Getting Started, True/False (DATABASE CONCEPTS By KROENKE)](#)	due by 6pm
	[Chapter 1 The Relational Database, Individual Project (Database Design for Mere Mortals, by Michael J. Hernandez)](#)	due by 6pm
	[Database Lab 2](#)	due by 9pm
Tue Oct 2, 2018	[Chapter 2 Practice Review Quiz (DATABASE CONCEPTS By KROENKE)](#)	due by 6pm
	[Chapter 2 The Relational Model, Discussion](#)	due by 6pm
	[Chapter 2 The Relational Model, Project (Individual Project)](#)	due by 6pm
	[Chapter 2 The Relational Model, True/False](#)	due by 6pm
	[Database Lab 3](#)	due by 9pm

Date	Details	
Tue Oct 9, 2018	Chapter 3 Practice Review Quiz (DATABASE CONCEPTS By KROENKE)	due by 6pm
	Chapter 3 Structured Query Language , True/False	due by 6pm
	Chapter 3 Structured Query Language, Discussion	due by 6pm
	Chapter 3 Structured Query Language, Project (Individual Project)	due by 6pm
	FINAL PROJECT Proposal	due by 6:00pm
	Database Lab 4	due by 9pm
Tue Oct 16, 2018	Chapter 4 Data Modeling and the Entity- Relationship Model , True/False	due by 6pm
	Chapter 4 Data Modeling and the Entity- Relationship Model, Discussion	due by 6pm
	Chapter 4 Data Modeling and the Entity- Relationship Model, Project (Individual Project)	due by 6pm
	Chapter 4 Practice Review Quiz (DATABASE CONCEPTS By KROENKE)	due by 6pm
	Database Lab 5	due by 9pm
Tue Oct 23, 2018	Chapter 5 Database Design , True/False	due by 6pm
	Chapter 5 Database Design, Discussion	due by 6pm
	Chapter 5 Practice Review Quiz (DATABASE CONCEPTS By KROENKE)	due by 6pm
	Chapter 5 Starting the Process (Hernandez), Project (Individual Project)	due by 6pm
	Midterm Exam, in-class 6pm SNH-124. Closed-book exam (on Chapter 1-5 Kroenke)	due by 9pm
Tue Oct 30, 2018	Chapter 6 Analyzing the Current Database (Hernandez), Project (Individual Project)	due by 6pm
	Chapter 6 Database Administration , Discussion	due by 6pm
	Chapter 6 Database Administration , True/False	due by 6pm
	Chapter 6 Practice Review Quiz (DATABASE CONCEPTS By KROENKE)	due by 6pm
	Database Lab 7	due by 9pm

Date	Details	
Tue Nov 6, 2018	[Chapter 7 Database Processing Applications, Discussion](#)	due by 6pm
	[Chapter 7 Database Processing, True/False](#)	due by 6pm
	[Chapter 7 Establishing Table Structures; Chapter 8: Keys (Hernandez), Project (Individual Project)](#)	due by 6pm
	[Chapter 7 Practice Review Quiz (DATABASE CONCEPTS By KROENKE)](#)	due by 6pm
	[Database Lab 8](#)	due by 9pm
Tue Nov 13, 2018	[Chapter 8 Data Warehouses, Business intelligence systems, and Big Data, Discussion](#)	due by 6pm
	[Chapter 8 Data Warehouses, Business Intelligence, True/False](#)	due by 6pm
	[Chapter 8 Practice Review Quiz (DATABASE CONCEPTS By KROENKE)](#)	due by 6pm
	[Chapter 9 Field Specifications (Hernandez), Project (Individual Project)](#)	due by 6pm
	[Database Lab 9](#)	due by 9pm
Tue Nov 20, 2018	[Appendix C Practice Review Quiz (DATABASE CONCEPTS By KROENKE)](#)	due by 6pm
	[Appendix C: Getting Started with MySQL 5.7 Community Server , True/False](#)	due by 6pm
	[Appendix C: Getting Started with MySQL 5.7 Community Server, Discussion](#)	due by 6pm
	[Chapter 10: Table Relationships (Hernandez), Project (Individual Project)](#)	due by 6pm
	[Database Lab 10](#)	due by 9:00pm
Tue Nov 27, 2018	[Appendix I Practice Review Quiz (DATABASE CONCEPTS By KROENKE)](#)	due by 6pm
	[Appendix I: Getting Started with Web Servers, PHP, and the NetBeans IDE, Discussion](#)	due by 6pm
	[Appendix I: Getting Started with Web Servers, PHP, and the NetBeans IDE, True/False](#)	due by 6pm
	[Chapter 11: Table Relationships (Hernandez), Project (Individual Project)](#)	due by 6pm
	[Database Lab 11](#)	due by 9:00pm

Date	Details	
Tue Dec 4, 2018	[FINAL PROJECT Submission](#)	due by 6:00pm
	[Final Exam - in-class 12/4/2018, 6pm. Closed-book exam.](#)	due by 8pm
Fri Dec 7, 2018	[Course Evaluation - Extra Credit](#) due by 11:59pm	

September 2018

Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26 Previous month	27 Previous month	28 Previous month	29 Previous month	30 Previous month	31 Previous month	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18 Today Click to view event details	19	20	21	22
23	24	25 Click to view event details	26	27	28	29
30	1 Next month	2 Next month Click to view event details	3 Next month	4 Next month	5 Next month	6 Next month

Course assignments are not weighted.