Georgia Gwinnett College

School of Science and Technology

# Introduction to Databases

Summer 2018

## Course Information:

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| Class Time: | Section 01: TR 11:00 am – 1:45 pm |
| Class Location: | Section 01: B-2200 |

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## Instructor Information:

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| --- | --- |
| Instructor Name: | Dr. Sonal Dekhane |
| Office Location | C-1315 |
| Cell phone: | 678-516-6107 |
| E-mail:  Tutoring: | [sdekhane@ggc.edu](mailto:sdekhane@ggc.edu)  TR: 2-3 pm, C-1315 |

## Course prerequisites:

ITEC 2140 (Programming Fundamentals) or ITEC 2120 (Intro to Programming) and (ITEC 2201 (Intro to Information Systems) or BUSA 3100 (Management Information Systems))

## Course Outcome Goals:

Students who have successfully completed the course will:

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| --- |
| CO1. Describe relational database core concepts |
| CO2. Apply SQL (Structured Query Language) for data manipulation and retrieval |
| CO3. Apply entity relationship (E/R) modeling and normalization towards the conceptual design of a relational database |
| CO4. Design and implement a relational database |
| CO5. Discuss emerging trends in database technologies such as non-relational database technologies |

## Integrated Educational Experience Goals:

The IEE goals are a set of learning outcomes achieved in all GGC graduates. These outcomes are achieved as a result of learning experiences across the academic and student affairs programs. This course directly contributes to the goals bolded below.

* **Clearly communicate ideas in written and oral form.**
* **Demonstrate creativity and critical thinking in inter- and multidisciplinary contexts.**
* **Demonstrate effective use of information technology.**
* Demonstrate an ability to collaborate in diverse and global contexts.
* **Demonstrate an understanding of human and institutional decision making from multiple perspectives.**
* Demonstrate an understanding of moral and ethical principles.
* Demonstrate and apply leadership principles.
* **Demonstrate quantitative reasoning.**

## Required Text and Supplies:

Text

Database Concepts

David Kroenke and David Auer, 8th Edition

**ISBN:** 9780134601533

Additional Requirements

Flash drive or cloud mechanism to save all work.

Windows based laptop or Apple MacBook (has some restrictions). The School of Science and Technology (SST) at Georgia Gwinnett College will require all students who enroll in ITEC 3000-4000 level courses to have a Windows-based laptop OR an Apple MacBook.

Software Requirements  
Both Microsoft products can be downloaded for free from [www.srs.usg.edu](http://www.srs.usg.edu). Instructions are provided on D2L/Syllabus and Other Resources widget.

1. **Microsoft Access 2016 32/64-bit.**  Even if you have Microsoft Office, you may not have Access. To check a computer for Access: click Start | All Programs | Microsoft Office, and you should see Microsoft Office Access 2016. If you do not see this listed, then Access is not installed on your computer. (Note: **there is no Mac version of MS Access**.)
2. **Microsoft Visio Professional 2016 32/64-bit**
3. **MySQL Community Server Edition 5.7.** Download and install instructions provided in a file on D2L.

## Grades:

Grading Policy

Grades will be assigned according to the following scale:

| **Letter Grade** | **Numeric Grade** |
| --- | --- |
| A | 90-100 |
| B | 80-89.9 |
| C | 70-79.9 |
| D | 60-69.9 |
| F | Below 60 |

Grading Scale

Two exams 30%

Final project 25%

Research project 15%

Homework 10%

Class participation 10%

Quizzes 10%

Total 100%

Graded Components

Quizzes – Quizzes will be online must be taken in-class. You must be present on time to take the quiz. No make-ups for quizzes.

Homework– Homework will include pre-class reading and post-class practice problems to help students achieve proficiency in the subject. No deadline extensions.

Class Participation - Presence in the class is absolutely necessary to earn class participation points. Students are expected to complete pre-class homework and come prepared to class. There will be very little lecturing in class. Class time will be mainly used to work on applying the concepts to problems.

Exams – There will be 2 major exams. Both will be online and will consist of 2 parts: multiple-choice (to cover theoretical concepts) and hands-on (to demonstrate proficiency in using necessary software).

Final project - The semester project is designed so that the students must utilize all of the concepts covered in the course. The project will consist of several deliverables due at different times in the semester. Students will work in teams of two and will be assigned a topic.

Research project – Same teams of two students will pick an advanced database topic for their research presentation. Teams will turn in a presentation and present their findings to the class.

## Academic Enhancement Center

The Academic Enhancement Center is your pathway to success!

The AEC’s trained professional and peer tutors offer **30-minute tutoring sessions** in a variety of high-demand subjects.

Writing tutors will tutor you at any stage of the writing process.  Math/Science/ITEC/Business tutors will help you gain a better understanding of course concepts.  Bring your notes, textbook, rubrics, and assignment sheets to your tutoring session.  Be prepared to answer and ask questions.

To schedule an appointment with one of the AEC’s tutors, visit **the AEC in C-G360** or **call 678-407-5191**. Drop-ins are also welcome. Currently enrolled GGC students can receive a maximum of two total tutoring sessions per day.

The AEC is open Monday-Thursday 9AM-9PM, Friday 9AM-5PM, Saturday 10AM-2PM, and Sunday 1PM-5PM. Hours subject to change during the summer semester.

# INSTRUCTOR/COURSE POLICIES

**Make-up examinations:**

If you know you have to miss an exam due to medical or military obligations--notify me in advance to make arrangements to take the test early. If you miss an exam, you must provide a ***VERIFIABLE WRITTEN EXCUSE*** explaining why you were absent from a doctor or appropriate authority. An oral explanation will not suffice. You had better have an excellent reason why you had to miss the exam. Failure to take the final exam automatically results in an F in the course. Make up exams have to be taken within 2 days of the original exam date.

## TECHNOLOGY COVENANT:

Technology will be used to deliver content, provide resources, assess learning, and facilitate interaction, both within the classroom and in the larger learning community.

### Course Materials and Grading:

You can expect to access the course materials and grades via D2L. Students should check the D2L site regularly, as course changes will always be announced and recorded on the course on the D2L site.

### Communication:

### I want to have face-to-face conversations with you, when possible. However, we may need to establish a time and place via email or by phone.

* I strongly encourage you to see me during my tutoring hours.

### I prefer email for most communication. I check my email at least twice a day, Monday through Friday. You can expect me to respond within 24 hours. On the weekend or when I am away from campus (i.e., at a conference), my response may not be within 24 hours.

### When corresponding by email, I will communicate with you using only your GGC email. You should check your GGC email every day. Emails from other domains (yahoo.com, gmail.com, hotmail.com, etc.) will not receive replies due to the Family Educational Rights and Privacy Act (FERPA).

* **Include your name, course and section number in all communication.**

### Expectations of Students:

* For this course students need to have a computer with the required software installed for in-class use. Please refer to the IT Laptop Program details at <http://www.ggc.edu/itlaptop>
* I expect students to access course or individual communications on a regular basis, which means every day.

### Technology Changes:

This covenant provides a general guideline for the course. Periodic and/or necessary changes to the covenant, including technology use and communication channels, may be required in order to accommodate the needs of the class as a whole and fulfill the goals of the course.

## Keys to Success in This Course:

In order to help you succeed in this course and do your best, I will:

1. ensure that the syllabus and tentative class schedule is uploaded into D2L by first day of semester
2. give guidance on what is expected of you to succeed on quizzes, exams, and assignments
3. put grades in D2L on a timely basis, typically within one week
4. be on time for class
5. give you my email and cell phone number and respond to your email and phone calls in a timely manner according to technology covenant
6. meet with you outside of class if you need additional help.

In order for you to succeed in this course and do your best, you should commit yourself to:

1. Class attendance is VERY important. You will miss out on announcements, course material and assignments. You will not know what is going on when you return after missing class!
2. Coming to class on time is of paramount importance. There might be quizzes that you miss and cannot make up or you might miss important instructions that prevent you from working successfully with a new software.
3. Install all necessary software on your laptop at the beginning of the semester. **Irregular attendance and lack of required software are the two most common reasons for student failure in this class.**
4. Complete all work on time. Late submissions will not be accepted.
5. Expect to spend at least twice the amount of time outside of class studying as you spend in the class.
6. Behave as a responsible adult. Come prepared to class and be an active participant in class.
7. Treat others with respect.

# GGC COLLEGE POLICIES

## Attendance Policy:

The classroom experience is a vital component of the college learning experience. Interaction with instructors and with other students is a necessary component of the learning process. Students are expected to attend regularly and promptly all class meetings and academic appointments. Students who are absent from classes bear the responsibility of notifying their instructors and keeping up with class assignments in conjunction with instructor provisions in the course syllabus. An individual instructor bears the decision as to whether a student’s absence is excused or unexcused and whether work will be permitted to be made up; the decision of the instructor in this case is final. Students who are absent because of participation in college-approved activities (such as field trips and extracurricular events) will be permitted to make up the work missed during their college-approved absences.

## Health and Safety Policy:

Certain laboratories include use of strong acids, solvents and preservatives. Any pregnant women, hypersensitive individuals, or immunocompromised people should report their condition to the instructor and to their physician, preferably before contact with the materials (see lab exercises). Additional instructions for lab will be presented during the first lab. Students are required to follow all instructions. Students failing to conform to lab rules and safety precautions will be first warned by removal from the lab. On second offense students will be removed from both lecture and lab.

## Americans with Disabilities Act Statement:

If you are a student who is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please seek assistance through the Center for Disability Services. A CDS Counselor will coordinate those services.

## Equal Opportunity Statement:

Georgia Gwinnett College is an Equal Opportunity College open to any qualified individual without regard to race, religion, sex, age, color, national or ethnic origin, or disability. Pursuant to all applicable federal anti-discrimination laws and regulations, Georgia Gwinnett College does not discriminate against any of the protected categories of individuals in the administration of its policies, programs or activities. This non-discriminatory policy includes admission policies, scholarship and loan programs, employment practices, and athletics and other school-administered programs.

## Affirmative Action Statement:

Georgia Gwinnett College adheres to affirmative action policies designed to promote diversity and equal opportunity for all faculty and students.

## Academic Respect:

The college exists to foster educational excellence. To this end, a classroom atmosphere that supports learning must be maintained. Students are expected to be active, attentive participants in the class. Students are also expected to abide by class policies and procedures and to treat faculty and other students in a professional, respectful manner. Students are expected to be familiar with the student conduct code published in the Student Handbook.

## Academic Integrity:

Student Honor Statement: We will not lie, steal, or cheat, nor tolerate the actions of those who do.

Georgia Gwinnett College students are expected to adhere to the highest standards of academic integrity and are expected to encourage others to do the same. Further, students are expected to take responsible action when there is reason to suspect dishonesty on the part of others.

Academic dishonesty carries severe penalties ranging from a grade of “0” on the affected assignment to dismissal from Georgia Gwinnett College. Each faculty member at Georgia Gwinnett College bears the responsibility for assigning penalties for cases of academic dishonesty. Students may appeal a penalty as outlined in the Student Handbook.

# SCHOOL OF SCIENCE AND TECHNOLOGY POLICIES

## Class attendance and Financial Aid:

Please be aware that faculty check attendance in each of your courses and are required to report to the Registrar students who never attend or cease attending a course. Students who are reported as never attended or have ceased attending a course, Financial Aid will be notified and is required to adjust your financial aid award accordingly. If you have any questions about how not attending a course for which you are registered will affect your financial aid eligibility, please contact the Financial Aid Office.

## Make-up Exam Policy:

You are expected to attend every class. Failure to attend class will affect your grade.

Special arrangements to take a regular exam early must be made in advance in writing. Early exams are available only at the instructor’s discretion and only under extreme circumstances.

IF an emergency arises and you miss an exam you MUST notify me on the same DAY as the exam. Notification by email, text or phone message is acceptable. Include your name, course and section number in all communication. Any make-up work may have a different format or different content from the regular assignment. Make-up work should be completed within two days of the original due date. Work missed due to unexcused absences will be given a grade of zero.

Other work cannot be made up. This includes quizzes, class participation, homework and projects.

If you feel that you are unable to complete your courses due to illness or family emergency, contact the Registrar’s Office to attempt to withdraw from your courses without penalty.

## Final Exam:

There won’t be a final exam for this class. Instead the project will be due during the finals week. The due date of all project deliverables is firm and will not be changed for a student.

The final exam will be given sometime during finals week as specified by the registrar. The date and time of the final exam is set by the registrar and will be posted. The exam schedule cannot be changed at the convenience of the student. You should not plan to be absent anytime during that week. A make-up final exam will only be given in cases of a verifiable excused absence.

## Course Changes:

This course syllabus provides a general plan for this course. I reserve the right to make changes to the syllabus, including changes to assignments, projects, examinations, etc., in order to accommodate the needs of the class as a whole and fulfill the goals of the course.

**Tentative Schedule:**

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| --- | --- | --- |
| **Date** | **Topics** | **Homework** |
| May 22 | Syllabus, Intro, Chapter 1, Access tutorial | Software installation success screenshots |
| ***May 22*** | ***Drop/Add ends*** |  |
| ***May 28*** | ***No classes***  ***Memorial Day Holiday*** |  |
| May 24 | Chapter 4, Visio | Pre-class chapter 4 assignment |
| May 29 | Chapter 4, Visio |  |
| May 31 | Chapter 5, Visio | Post-class chapter 4 assignment  Pre-class chapter 5 assignment |
| June 5 | Chapter 5, Visio |  |
| June 7 | Exam 1 (Chapters 1,4,5, Visio, Access) | Post-class chapter 5 assignment |
| June 12 | Chapter 2 | Pre-class chapter 2 assignment |
| June 14 | Chapter 2 |  |
| ***June 14*** | ***Last day to withdraw with a W*** |  |
| June 19 | Chapter 3, MySQL | Pre-class chapter 3 assignment  Project deliverable 1 |
| June 21 | Chapter 3, MySQL |  |
| June 26 | Chapter 3 MySQL |  |
| June 28 | Advanced SQL Topics | Project deliverable 2 |
| ***July 2-5*** | ***No classes***  ***Independence Day Holiday*** |  |
| July 10 | Access |  |
| July 12 | Test 2 (Chapters 2, 3, MySQL, Access) |  |
| July 17 | Research presentations |  |
| July 23-July 25 | Exact date and time to be announced | Final project due |