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**Department Homepage:**

<http://www.daytonastate.edu/CampusDirectory/DeptInfo.aspx?dept=ENT>

**Faculty Web Page:** <http://daytonastate.edu/CampusDirectory/empinfo.jsp?id=7823985769276911>

**Course Description:** This course provides the foundation for understanding the Design and implementation of database systems within the concept of central administration, structured data storage, and data base security. Programming project is required.

**Prerequisites:** Course pre-requisites: COP2220, or COP2001 or COP2800 (or equivalent)

**Minimum Technical Requirements:** Minimum technical skills required for the course is the ability to use Falcon Online on a daily bases, such as: downloading course content, viewing classroom lectures, participating in discussion boards, downloading and submitting assignment from and to dropbox, take online quizzes and exams. In addition, students should have skills for sending attachments by email, creating and submitting files using a specific word processing or spreadsheet program, using presentation programs, downloading and installing software, etc.

**Student Learning Outcomes:** Upon completion of this course, the student will be able to

1. Analyze a problem and identify computing and user requirements to implement the proper solution capturing the impact of the implementation on the local and the global levels.
2. Design, normalize, and implement database systems.
3. Describe common security models of database management systems
4. Develop the ability to manipulate databases using database management tools, techniques and their computer skills.
5. Identify common security concerns in database management systems
6. Apply security principles to the design and development of database systems and database structures
7. Recognize professional, ethical, and legal issues associated with database and database management

**Topics Covered:**

- Introduction to Database and Database Management Systems
- Relational Databases and Normalization
- Database Design Using Normalization
- Data Modeling and database Vulnerabilities
- Hashing and Encryption
- Database Controls
- Information Flow and Database Security Models
- Transforming Data Models and Security Measures into Designs
- Structured Query Language (SQL)
- SQL for Applications
- Managing Database with Oracle
- Database Redesign
- Managing Multi-user Database: Security issues and common DBMS Vulnerabilities

**Class Format:** The course will be online based and will be offered through Falcon Online Portal (<https://class.daytonastate.edu/d2l/home>).

- Your Home Page will display the different courses that you have for this semester, clicking on the course link will take you to the course home page.
- Course home page includes various tabs that will contain different course material
- Falcon Online e-mail will be used to communicate with students
- Falcon Online will be used to disseminate instructional materials and some assignments throughout the course. Students should check Falcon Online and their e-mail at least once per day.
- When sending e-mail to the instructor, please begin the "Subject:" of the message with the following: "COP4708" to identify the course of inquiry
- Check the news widget on a daily basis to get the latest updates
- Students are expected to have access to and be familiar with a word processing application (*e.g.*, Microsoft Word) as all assignments will require its use.
- The use of the discussion board is highly encouraged. Please limit the use of the discussion board strictly to class issues.

**Recommended Textbook (But NOT Required):** Database Processing Fundamentals, Design, and Implementation, David M Kroenke, 13th Edition, Prentice Hall, 2013.

**Optional Materials:** Database Analysis and Design, I.T. Hawryszkewycz, Second Edition

**Equipment and Supplies:** You must have access to a desktop or laptop computer (PC or Mac) equipped with Microsoft Office compatible software. Because this is an online course, and lectures will be delivered via streaming video, adequate Internet bandwidth is required. Office hours and group meetings (if any) will be held via video conferences, so possession of a webcam and headset are strongly encouraged. High definition is not required.

**Important Links:** you may find the following links useful:

Falcon Online: <http://class.daytonastate.edu>

Falcon Online Support: <http://www.daytonastate.edu/falcononline/>

Students Handbook: [http://www.daytonastate.edu/recreg/files/student\\_handbook.pdf](http://www.daytonastate.edu/recreg/files/student_handbook.pdf)

College Writing Center: [www.daytonastate.edu/cwc](http://www.daytonastate.edu/cwc)

Academic Support Center: <http://www.daytonastate.edu/asc/>

College Library: <http://www.daytonastate.edu/library/article.html>  
NIST Computer Security Site: <http://csrc.nist.gov/>

### Classroom Policies

**Disclaimer:** Teaching policies and regulations for this course are not open for discussion or negotiation. This syllabus has been constructed to be as complete as possible but is by no means a binding document. I reserve the right to alter policies, procedures, and the syllabus as needed. Please utilize the website regularly as any changes to the syllabus will be posted there.

**How to proceed through the course:** Students should plan to have three hours of study time per week for each credit hour of class time. Example: when taking a typical 3 credit hour course, students should plan to spend at least 9 hours per week doing coursework and studying for that course regardless of the mode of delivery (online, hybrid, face-to-face). The course is organized around modules, generally one per week. Each module will become visible at the beginning of the academic week. Each module will have power points and links for course lectures and other documents as needed. Students are responsible for reading and completing ALL of the links in each module. Generally there will be either a quiz or an assignment that will cover each week. If a project was assigned to this course it will be divided into three project assignments extended over the semester. The first module will include course information such as the syllabus and the course schedule and introduction lecture. Students are strongly advised to view the lecture and read the syllabus carefully.

#### Handling of assignments:

- All assignments are due on or BEFORE the scheduled due date and time. Absolutely NO late assignments will be accepted.
- All assignments must be submitted via Falcon Online, unless specified otherwise.
- All assignments must be submitted in a high-quality and professional manner. They should be well-written and understandable. The steps/methods of solving the problems should be clearly stated.
- Students are encouraged to collaborate outside of class to discuss and debate course concepts. However, all assignments MUST be completed and written up individually. Each student is required to turn in his or her own solutions. If the assignment has been designated a team assignment by the instructor, one copy of the assignment solutions containing the names of all team members is required.

#### Communication:

- All communication should be through online channels such as email messages, discussions and Skype.
- Students are encouraged to communicate through face to face or phone channels during office hours.
- Due to the large number of email messages received from online classes, replies will be within three to four days.
- Grading assignments and/or exams will be within seven to ten days.
- The Ice Breaker will be a mandatory discussion that is required during the first week of the semester to get to know participating students and verify attendance. Ice Breaker discussion will be graded out of 10 points.

**Interaction:** Students interactions with the course material, classmates and the instructor will be through Falcon Online discussion boards and through email messages.

**Attendance and Lateness Policy:** The course attendance will be determined by your log report to Falcon Online, your Ice Breaker, your assignment submissions, your quizzes and exams, and your completed modules. Each portion you finish including the log report will be counted through your final grade.

**Late Work/Make-up Work and Exams:**

- All assignments are due on or BEFORE the scheduled due date and time. Absolutely NO late assignments will be accepted.
- Excusal of a student from an exam due to an emergency such as student illness, family illness or death, *etc.* requires valid and provable documentation before the student is eligible for the makeup exam. The documentation must be given to the instructor NO LESS THAN 24 HOURS BEFORE the due date and NO MORE THAN 48 HOURS AFTER the due date.
- Makeup exams will be given towards the end of the semester, at a date announced by the instructor. The makeup exams may be different and more challenging than those administered on the original date.

**Classroom Etiquette:** Since this is an online course, the classroom etiquette is represented through proper discussions posting (professional and related to course material). If you have any complains related to the course or your grade it should be communicated to the instructor through email messages not through discussion posting. Assignments should be completed individually, solutions are not allowed to be shared.

**Evaluation/Assessment Methods:** Students will be assessed and evaluated through the success of this course in achieving the intended outcomes through:

- Quizzes that covers all objectives
- Exam to measure the understanding of the concepts within the mentioned objectives

All exams will be online. Students will be given a time window during which the exam can be taken. If students have problems submitting their exam for any reason (system is down etc.), they need to get in touch with the Falcon Online Helpdesk for the college at <http://online.daytonastate.edu/support.html>. Any other question about the exam should be directed to the instructor.

**Assignments:**

- All assignments are due on or BEFORE the scheduled due date and time. Absolutely NO late assignments will be accepted.
- All assignments must be submitted via Falcon Online, unless specified otherwise.
- All assignments must be submitted in a high-quality and professional manner. They should be well-written and understandable. The steps/methods of solving the problems should be clearly stated.
- Students are encouraged to collaborate outside of class to discuss and debate course concepts. However, all assignments MUST be completed and written up individually. Each student is required to turn in his or her own solutions. If the assignment has been designated a team assignment by the instructor, one copy of the assignment solutions containing the names of all team members is required.

**Grading Policy:**

Grades are based on overall points accumulated on class participation/attendance, quizzes, a term paper, and the final exam. In addition, to successfully complete the course with a grade C or higher:

- 70% or more of all quizzes must be completed by specified due dates,
- Completion of each quiz with 70% points or more.

## Points per Task

Course Assignments + Ice Breaker	25%
Midterm	15%
Project Assignments	40%
Final Exam	20%
TOTAL	100%

## Grading Scale:

Percent	Grade
90% - 100%	A
87% - 89%	B+
80% - 86%	B
77% - 79%	C+
70% - 76%	C
67% - 69%	D+
60% - 66%	D
0% - 59%	F

**An incomplete grade** will NOT be given UNLESS the following criteria are met:

- A request in writing is submitted to the instructor prior to last three weeks of class,
- All assignments, term paper, and quizzes were completed at that point in time,
- The student has a grade C or higher at that point in time.

**Class Schedule:** The class schedule will be provided in a separate document, that will include assignment, holidays, and exams tentative due dates.

**Withdrawal Process:** Students can withdraw from this class prior to the date listed in the Academic Calendar. It is not necessary to have approval from the instructor to withdraw from the course, but you should discuss the situation with the instructor prior to any action. Many times issues and concerns can be resolved with communication. Please review [Refund/Repayment Policy](#) and also check with the Office of Financial Aid to determine how this withdrawal might affect your current and future aid eligibility. If the decision has been made to withdraw, you should

- Go to MyDaytonaState.edu and log in
- Click on Falcon Net in the menu bar
- Using the left hand menu, click on Registration
- Click on Class Registration link
- Read the message about tuition payment and then scroll down to acknowledge the information

- Click on the Continue button
- Select the current term you and year
- Click on the Registration button
- Select the course you want to withdraw from by clicking in the radio button; then click the Drop Course button

### **Student Rights & Responsibilities**

Students are responsible for reading and following all college policies outlined in the Student Handbook. Some of the most important are summarized below. The Handbook can be accessed at <http://www.daytonastate.edu/academics.html> under “Student Resources.”

#### **Academic Integrity**

In order to preserve academic excellence and integrity, the College expects you to know, understand, and comply with the Academic Integrity Policy, which prohibits academic dishonesty in any form, including, but not limited to, cheating and plagiarism. Grades conferred by instructors are intended to be, and must be, accurate and true reflections of the coursework actually produced and submitted by you.

Cases of suspected academic dishonesty may be reported to the Judicial Affairs Office for resolution. Grade penalties may apply based on individual cases.

*Honor Pledge:* I, as a member of the DSC community, pledge that I will neither give nor receive unauthorized aid in my work nor will I present another’s work as my own, nor will I tolerate anyone who does. For more information on academic integrity, view [Honor Code](#).

#### **Forms of Academic Dishonesty**

**Cheating-** Cheating can be defined as: receiving or giving unauthorized assistance on a quiz, test, exam, paper, or project or unauthorized use of materials to complete such; collaborating with another person(s) without authorization on a quiz, test, exam, paper, or project; taking a quiz, test, or exam for someone else or allowing someone else to do the same for you.

**Plagiarism** -Plagiarism can be defined as: submitting work in which words, facts, or ideas from another source are used without acknowledging that the material is borrowed whether from a published or unpublished source. For specific information on how to document information from other sources, students should check with their instructors, academic departments, or a recognized writing manual, such as the MLA or APA.

**Self-plagiarism** -Recently the idea that students can plagiarize themselves has surfaced. When students turn in the same assignment for two different classes, they are self-plagiarizing. This rule also applies to sections of an assignment. Not only does ‘repurposing’ assignments deny students the opportunity to learn, but also it is not fair according to the college’s standards. Because of this, self-plagiarizing is coined ‘double-dipping,’ which leads to devaluation of grades and therefore, a devaluation of the College. Daytona State College prohibits self-plagiarism.

**Online Academic Integrity Violations** -These violations include, but are not limited to the following: sharing your Falcon Online password, working on an assignment with someone else when it is supposed to be done on your own, looking at someone else’s work while taking a quiz or exam, using a cell phone to share quiz or exam information, revising a paper that was found on the Internet, or submitting a paper purchased from a website.

**Fabrication** -Fabrication can be defined as: listing sources in a bibliography that one did not actually use in a written assignment; presenting false, invented, or fictitious data/evidence in a written assignment.

**Other Academic Misconduct:** Other Academic Misconduct might include, but is not limited to:

- In a testing situation, conduct, such as, looking at a classmate's test, talking to a classmate, or leaving the classroom without the instructor's or proctor's permission.
- Obtaining help while taking online tests or quizzes in the form of another person consultation, Googling for answers, texting, or using other social media.
- Obtaining part or all of a test by theft/purchase, OR selling /giving part of all of a test to someone else.
- Soliciting someone to impersonate you online or in a classroom setting.
- Entering an office or building for the purpose of changing a grade on a test, assignment, or in a grade book or for the purpose of obtaining a test.
- Altering or attempting to alter academic records of the College which relate to grades; being an accessory to same.

**Honor Pledge :** I, as a member of the DSC community, pledge that I will neither give nor receive unauthorized aid in my work nor will I present another's work as my own, nor will I tolerate anyone who does.

For more information on academic integrity, view [Honor Code](#).

**College Network Acceptable Use Policy:** The purpose of this policy is to outline the acceptable use of the network and resources provided by Daytona State College and to establish a culture of openness, trust, and integrity. Please make yourself very aware of this policy by clicking these two links:

- [Terms of Use](#)
- [Falcon Online User Expectations](#)

### Academic Support Services

**The Division of Library and Academic Support provides the following free services to students.**

**Academic Support Center:** The Academic Support Center (ASC) assists students to achieve their potential by providing the resources they need to become successful, independent learners. ASC centers are available on all campuses providing academic support in the form of tutoring, learning sessions, instructor assistance, supplemental instruction and various workshops. For more information please go to <http://www.daytonastate.edu/asc/> or email ASC@DaytonaState.edu.

**Writing Center:** The Writing Center assists students, staff, and faculty to become better writers through face-to-face or virtual consultations (up to 50 minutes) and workshops. As the hub for writing at Daytona State, staff work with all writers at any stage of the writing process—so whether you're brainstorming ideas for a psychology paper or need a new perspective in the revision of a letter, consider meeting with the staff at the Writing Center. Scheduling appointments are recommended; call (386.506.3297) or visit the website [www.daytonastate.edu/cwc](http://www.daytonastate.edu/cwc) for more information.

**Library Services:** Daytona State Library Services offers many types of resources to support research needs (or just your curiosity). These resources include everything from [e- books](#) to [online databases](#) containing countless number of full-text newspapers, magazines and scholarly journals. Many of the resources can

be accessed from the web 24/7. A [staff](#) of very helpful librarians is available for guidance to the best resources for any type of project. [E-mail the librarians](#), and/or call 386-506-3518, or check out the [website](#) for more information.

**Technical Support** is available for Falcon mail, printing, web usage, Desire2Learn, and more. Students may call 386-506-4AID (4243) or e-mail [FalconAid@Daytonastate.edu](mailto:FalconAid@Daytonastate.edu).

Local access numbers for your area are:

Daytona	(386) 506-4243
Deland	(386) 785-2000 ext. 4243
Deltona	(386) 789-7241 ext. 4243
Flagler/Palm Coast	(386) 246-4800 ext.4243
New Smyrna	(386) 423-6300 ext. 4243

Please check the days and times to contact the [Student Helpdesk](#). Times may vary during holidays and special circumstances.

Personalized assistance via walk-in may be obtained at the new Falcon Aid Student Help Desk Kiosk located on the Daytona Campus in J. Griffin Greene, building 300, room 109. For days and times, check out the [Kiosk](#).

**Students with Disabilities:** If you need academic accommodations, such as private testing, interpreters, note takers, etc., please give me a current letter from Student Disability/Counseling Services that verifies your need for specific accommodations. Please make an appointment with me as soon as possible to discuss the accommodations. See Daytona State website for more information <http://www.daytonastate.edu/sds/> or see the Student Handbook at <http://www.daytonastate.edu/current.html>.

**Veterans:** If you are currently serving or have ever served in the U.S. Military, please feel free to visit the Veterans Center in the Lenholt Student Center (Bldg. 130, room 124) for any assistance or phone 386.506.3065.

**Safety on Campus:** Daytona State College has partnered with Rave Mobile Safety to provide Rave Alert, an emergency alert system that can deliver text and voice messages to your cell phone and voice messages to your home phone, as well as email messages to your Falcon Mail account or personal email account of your choosing. Daytona State College Rave Alert is also capable of posting emergency messages to the College's official Facebook and Twitter accounts and to the Falcon Central page. Check your Falcon Mail after you register for information on accessing and updating your free Daytona State College Rave Alert account. You can also visit <https://www.getrave.com/login/daytonastate>. In addition, the first few weeks of class you should note the door exits and stairwell locations in case of emergency situations. For more information concerning campus safety, go to [http://www.daytonastate.edu/campus\\_safety/](http://www.daytonastate.edu/campus_safety/).