American Public University System

The Ultimate Advantage is an Educated Mind

Department of Information Technology
INFO271: Relational Databases with Oracle: SQL Intermediate
3 Credit Hours
Length of Course: 8 weeks
Prerequisite: INFO171: Relational Databases with Oracle: SQL
Introduction

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Instructor Information

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Course Description (Catalog)

This course is a study and application of the American National Standards Institute (ANSI) Standard Structured Query Language (SQL) constructs for an advanced level of data definition (create, alter, drop), data manipulation (insert, update, delete), and transaction control (commit, savepoint, and rollback). The course builds on the techniques learned in the introductory course for database design and implementation. It explores the database life cycle through conceptual, logical, and physical design phases. The course examines the correlation between SQL and relational algebra; user access and control; transactional integrity; referential integrity; concurrency control; and database objects such as views, complex views, SQL functions, and sequences. Advanced topics discussed in the course include: database performance tuning, query optimization, distributed database systems, business intelligence, data analytics, data warehousing, cloud computing services, and the administration of database systems. Students must have access to Oracle software. This software is not provided by the course materials grant and must be purchased / provided and installed by the student. Course software requirements with the appropriate versions are listed under the course materials site. Prerequisite: INFO171 or equivalent.

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Course Scope

This course focuses on the database life cycle through logical and physical design by using advanced SQL statements. This course provides extensive, in-depth, and practical coverage with SQL, SQL Joins, relational set operations, views, sequences along with transaction management and query optimizations. This course also covers some advanced topics such as database locking and optimistic method in distributed database systems along with some common practices used to write efficient SQL-code. Students must have access of Oracle Database 11g.

Course Objectives

At the conclusion of the course, participants should be able to:

1. Describe the role of databases and database applications by using SQL
2. Apply SQL JOIN, Relational Set operators, triggers and store procedures
3. Analyze the database optimization techniques and locking database in transaction control environment
4. Interpret the knowledge of the database sequences, views and update views
5. Identify the benefits of distributed database management systems by applying SQL-code

Course Delivery Method

This course delivered via distance learning will enable students to complete academic work in a flexible manner completely online. Course materials and access to an online learning management system will be made available to each student. Online assignments are due by the last day of each week (Sunday, 11:59 EST) and include Discussion Forum questions (accomplished in groups through a threaded discussion board), Labs and quizzes (graded electronically). Assigned faculty will support the students throughout this eight-week course.

Course Materials
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<table>
<thead>
<tr>
<th>Book Number</th>
<th>Authors</th>
<th>Book Title</th>
<th>Publication Info</th>
<th>ISBN</th>
</tr>
</thead>
</table>

Software: Students must have access of Oracle Database 11g software for the duration of the course.

Textbook Access Code:

This Textbook (Only New Book not the Used Textbook) come with the “Card” or a “Access Code” at the front of the textbook for instruction on accessing the following items by using CourseMate.

- Quizzes
- Crossword puzzles
- Flashcards
- Videos
- PowerPoint presentation
- and more

Note: This code is only come with the new Text Book not the used or old text book because it is only used one time.

Evaluation Procedures

1. Detailed instructions for weekly assignments are found in Appendix A.
2. Refer to the e-classroom instructions (Appendix B) to find out how to upload assignments, participate in online Discussion Board discussions, and take exams.
3. Evaluation Criteria:

Course Requirements: Your final grade will be based on the following course requirements and percentages:

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussion Forum Activities (Week1,3,5,7)</td>
<td>8</td>
</tr>
<tr>
<td><strong>Week 1: Assignment 1 and Lab Project 1</strong></td>
<td></td>
</tr>
<tr>
<td>Assignment 1</td>
<td>6</td>
</tr>
<tr>
<td>Lab Project 1</td>
<td>6</td>
</tr>
<tr>
<td><strong>Week 2: Assignment 2 and Lab Project 2</strong></td>
<td></td>
</tr>
<tr>
<td>Assignment 2</td>
<td>6</td>
</tr>
<tr>
<td>Lab Project 2</td>
<td>6</td>
</tr>
<tr>
<td><strong>Week 3: Assignment 3 and Lab Project 3</strong></td>
<td></td>
</tr>
<tr>
<td>Assignment 3</td>
<td>6</td>
</tr>
<tr>
<td>Lab Project 3</td>
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<table>
<thead>
<tr>
<th>Week 4: Assignment 4 and Lab Project 4</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Assignment 4</td>
<td>6</td>
</tr>
<tr>
<td>Lab Project 4</td>
<td>6</td>
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</table>

<table>
<thead>
<tr>
<th>Week 5: Assignment 5 and Lab Project 5</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 5</td>
<td>6</td>
</tr>
<tr>
<td>Lab Project 5</td>
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<table>
<thead>
<tr>
<th>Week 6: Assignment 6 and Lab Project 6</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 6</td>
<td>4</td>
</tr>
<tr>
<td>Lab Project 6</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Week 7: Assignment 7 and Lab Project 7</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 7</td>
<td>4</td>
</tr>
<tr>
<td>Lab Project 7</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Week 8: Assignment 8 and Lab Project 8</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 8</td>
<td>6</td>
</tr>
<tr>
<td>Lab Project 8</td>
<td>10</td>
</tr>
</tbody>
</table>

| Total: | 100 |

Submit all assignments & Labs (except Discussion Board answers and Quizzes) in Assignments section

Assignment Requirements

Discussion Board Introduction

You are required to introduce yourself to your classmates in an online discussion. Additional discussion board topics may be added to clarify issues.

Competency

You will be required to complete assigned work and upload them in Assignments.

<table>
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<tr>
<th>Grading Scale</th>
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Please see the student handbook to reference the University's grading scale.

| Course Outline |

8 Week Course

(Click on the Week Number to Hyperlink to Detailed Information)

<table>
<thead>
<tr>
<th>Week</th>
<th>Learning Objective(s)</th>
<th>Reading(s)</th>
<th>Assignment(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Refer to Week 1</td>
<td>Review of Basic</td>
<td>Upload Week 1:</td>
</tr>
</tbody>
</table>
### STUDENT WARNING:
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<table>
<thead>
<tr>
<th>Week</th>
<th>Objectives in Appendix A</th>
<th>SQL: Textbook: Ch 7: Introduction to SQL</th>
<th>Discussion Board Week 1 Forum Introduction[Part 1 &amp; Part II], Week 1: Assignment 1 and Lab Project 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Refer to Week 2 Objectives in Appendix A</td>
<td>Textbook: Ch 8: Advanced SQL</td>
<td>Upload Week 2: Week 2: Assignment 2 and Lab Project 2</td>
</tr>
<tr>
<td>3</td>
<td>Refer to Week 3 Objectives in Appendix A</td>
<td>Textbook: Ch 8: Advanced SQL (Conti..)</td>
<td>Upload Week 3: Discussion Board Week 3 Forum Week 3: Assignment 3 and Lab Project 3</td>
</tr>
<tr>
<td>4</td>
<td>Refer to Week 4 Objectives in Appendix A</td>
<td>Textbook: Ch 8: Advanced SQL (Conti..)</td>
<td>Upload Week 4 Week 4: Assignment 4 and Lab Project 4</td>
</tr>
<tr>
<td>5</td>
<td>Refer to Week 5 Objectives in Appendix A</td>
<td>Textbook: Ch 10: Transaction Management and Concurrency Control</td>
<td>Upload Week 5: Discussion Board Week 5 Week 5: Assignment 5 and Lab Project 5</td>
</tr>
<tr>
<td>6</td>
<td>Refer to Week 6 Objectives in Appendix A</td>
<td>Textbook: Ch 10: Transaction Management and Concurrency Control (Conti..)</td>
<td>Upload Week 6 Week 6: Assignment 6 and Lab Project 6</td>
</tr>
<tr>
<td>7</td>
<td>Refer to Week 7 Objectives in Appendix A</td>
<td>Textbook: Ch 11: Database Performance Tuning and Query Optimization</td>
<td>Upload Week 7: Discussion Board Week 7 Forum Week 7: Assignment 7 and Lab Project 7</td>
</tr>
<tr>
<td>8</td>
<td>Refer to Week 8 Objectives in Appendix A</td>
<td>Textbook: Ch 12. Distributed Database Management Systems and Ch 8: [Advanced Query]Case Study</td>
<td>Upload Week 8: Week 8: Assignment 8: Lab Project 8 (Based on chapter 8; Case Study)</td>
</tr>
</tbody>
</table>

#### Appendix A
- Weekly Student Course Guide

#### Appendix B
- e-Classroom Instructions

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Policies

Please see the student handbook to reference all University policies. Quick links to frequently asked question about policies are listed below.

Drop/Withdrawal Policy
Plagiarism Policy
Extension Process and Policy

Academic Services

ONLINE LIBRARY RESEARCH CENTER & LEARNING RESOURCES
The Online Library Resource Center is available to enrolled students and faculty from inside the electronic campus. This is your starting point for access to online books, subscription periodicals, and Web resources that are designed to support your classes and generally not available through search engines on the open Web. In addition, the Online Library provides access to special learning resources, which the University has contracted to assist with your studies. Questions can be directed to librarian@apus.edu.

- Charles Town Library and Inter Library Loan: The University maintains a special library with a limited number of supporting volumes, collection of our professors’ publication, and services to search and borrow research books and articles from other libraries.
- Electronic Books: You can use the online library to uncover and download over 50,000 titles, which have been scanned and made available in electronic format.
- Electronic Journals: The University provides access to over 12,000 journals, which are available in electronic form and only through limited subscription services.
- Turnitin.com: Turnitin.com is a tool to improve student research skills that also detect plagiarism. Turnitin.com provides resources on developing topics and assignments that encourage and guide students in producing papers that are intellectually honest, original in thought, and clear in expression. This tool helps ensure a culture of adherence to the University's standards for intellectual honesty. Turnitin.com also reviews students’ papers for matches with Internet materials and with thousands of student papers in its database, and returns an Originality Report to instructors and/or students.
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- **Smarthinking**: Students have access to 10 free hours of tutoring service per year through Smarthinking. Tutoring is available in the following subjects: math (basic math through advanced calculus), science (biology, chemistry, and physics), accounting, statistics, economics, Spanish, writing, grammar, and more. Additional information is located in the Online Library. At the Online Library home page, look under Tutorial Center and General Studies and click on the “Smarthinking” Link. All login information is available.

### Appendix A – Weekly Student Course Guide

#### Week 1 – Structured Query Language (SQL):

**Resources**: Text Book Chapter 7

**Objectives**: Successful students will learn:

1. Review the basic SQL statements related to SQL Type (DML, DDL and DCL)
2. How to use SQL for data manipulation (to add, modify, delete)
3. How to use SQL to query a database for useful information

#### Week 1: To Do List:

1. **Readings:**
   
   Textbook: Chapter 7

2. **Forum Discussion:**
   
   Week 1 Forum Discussion: Participate week 1 Forum Discussion [Part 1 & 2]

3. **Assignment:**
   
   Submit Week 1 Assignment and Lab Project 1

**Due Date: Every Sunday, at 11:59 EST (Eastern Standard Time)**

**Important Information:**

1. **Discussion Board Introduction** - Introduce yourself in Discussion Board and respond to at least 2 of your classmates ([Back to e-Classroom Instructions], [Part I & II])

2. Click on the “Discussion Board” and “Introduce Yourself” links
   
   A. Click “REPLY TO THIS MESSAGE” and enter a short introductory paragraph about yourself, what you are majoring in and what you expect learn from this course.
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B. Click Reply
C. Respond to 2 other student’s answers by clicking the Subthread link located beneath their answer
D. Click the Submit button

3. I encourage you to upload a picture of yourself (optional) in your "My Profile" to personalize the online interaction with your classmates. This is not a course requirement.
   A. To upload your photo, look in the left menu, and click Course Materials.
   B. In the center of the page, click My Folder, Upload To My Folder, Browse, click on the file name of your photo, Open and Upload File.
   C. When your picture uploads, place a check mark in the box to make it visible in your profile to other students.

4. Privacy Profile – If you want to share your photo with other students, you must adjust your privacy setting in your profile by following these steps:
   A. In the left menu click My Profile
   B. Click the sub-link Modify Profile
   C. In the table, scroll down to the Profile Privacy section and click the small arrow in the drop down menu.
   D. Select “Show to Everyone” or “Show to instructor” as you prefer

5. Scroll down and click the Re-Create Profile button

Notes: Please refer to the Announcements posted in the e-classroom.

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Back to Course Outline

Week 2 – Advance SQL

Resources: Text Book Chapter 8

Objectives: Successful students will learn:

1. How to use the advanced SQL JOIN operator syntax
2. The types of subqueries and correlated queries
3. Apply the SQL in Database implementation and learn SQL syntax

Week 2: To Do List:
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1. Readings:
   Textbook: Chapter 8

2. Forum Discussion:
   None

3. Assignment:
   Submit Week 2 Assignment & Lab Project 2

**Due Date: Every Sunday, at 11:59 EST (Eastern Standard Time)**

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**Week 3 – Advance SQL continue**

**Resources: Text Book Chapter 8 Conti...**

**Objectives:** Successful students will learn:

1. How to use SQL functions to manipulate dates, string, and other data:
2. about the relational set operators UNIONS, UNION ALL, INTERSECT, and MINUS
3. How to create sequences and use of views

**Week 3: To Do List:**

1. **Readings:**
   Textbook: Chapter 8

2. **Forum Discussion:**
   Week 3 Forum Discussion: Participate week 3 Forum Discussion

3. **Assignment:**
   Submit Week 3 Assignment and Lab Project 3

**Due Date: Every Sunday, at 11:59 EST (Eastern Standard Time)**
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Week 4 – Advance SQL continue

Resources: Text Book Chapter 8

Objectives: Successful students will learn:

1. How to use views and update views
2. How to create and use triggers and store procedures
3. How to create embedded SQL

Week 4: To Do List:

1. Readings:

   Textbook: Chapter 8

2. Forum Discussion:

   None

3. Assignment:

   Submit Week 4 Assignment and Lab Project 4

Due Date: Every Sunday, at 11:59 EST (Eastern Standard Time)

Week 5 – Transaction Management and Concurrency Control

Resources: Text Book Chapter 10

Objectives: Successful students will learn:

1. About database transactions and their properties
2. How concurrency control play an important part in maintaining database’s integrity
3. How optimistic methods are used for currency control

Week 5: To Do List:

1. Readings:

   Textbook: Chapter 10

2. Forum Discussion:
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Week 5 Forum Discussion: Participate week 5 Forum Discussion

3. Assignment:

Submit Week 5 Assignment and Lab Project 5

Due Date: Every Sunday, at 11: 59 EST (Eastern Standard Time)

Week 6 – Transaction Management and Concurrency Control continue

Resources: Text Book Chapter 10

Objectives: Successful students will learn:

1. How to use stamping methods are used for concurrency control
2. About locking methods and how it can be used to during transaction management?
3. How to maintain the database integrity

Week 6: To Do List:

1. Readings:
   Textbook: Chapter 7

2. Forum Discussion:
   None

3. Assignment:

Submit Week 6 Assignment and Lab Project 6

Due Date: Every Sunday, at 11: 59 EST (Eastern Standard Time)

Week 7 – Database Performance Tuning and Query Optimization

Resources: Text Book Chapter 11

Objectives: Successful students will learn:

1. about the basic concepts about database performance tuning
2. About the type of decision used in query optimizer
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Week 7: To Do List:

1. Readings:
   Textbook: Chapter 11

2. Forum Discussion:
   Week 7 Forum Discussion: Participate week 7 Forum Discussion

3. Assignment
   Submit Week 7 Assignment and Lab Project 7

Due Date: Every Sunday, at 11:59 EST (Eastern Standard Time)

Week 8 – Distributed Database Management Systems (DDBMS)

Resources: Text Book Chapter 12 and Review Chapter 8

Objectives: Successful students will learn:

   1. about the basic concepts about DDBMS and its components
   2. How to manage transactions in DDBMS
   3. How to apply Advanced SQL in Case Study based project

Week 8: To Do List:

1. Readings:
   Textbook: Chapter 12

2. Forum Discussion:
   None

3. Assignment
   Submit Week 8 Assignment and Lab Project 8 based on Case Study related to Chapter 8

Due Date: Every Sunday, at 11:59 EST (Eastern Standard Time)
Appendix B – e-Classroom Instructions

E-CLASSROOM COMMUNICATION FEATURES AND CAPABILITIES

e-Classroom Instructions
Revised Oct 18, 2005

SYLLABUS – to obtain the course and weekly scopes, objectives, required readings, and turn-ins

ANNOUNCEMENTS – to receive comments and guidance from your professor

MAILBOX – to send and receive all course related emails

ASSIGNMENTS – to upload documents and send comments to your professor

DISCUSSION BOARD – to conduct online discussions with your classmates

TEST & QUIZZES – to measure your knowledge and comprehension

MY PROFILE – to view your grades and professor comments/guidance

COURSE MATERIAL INSTRUCTIONS – to view documents posted by your professor

SYLLABUS

1. In the left menu, click the Syllabus link
2. Scroll down and click View Syllabus
3. In a few moments, an MS Word Document will appear (download times may vary according to the speed of your internet service provider and the size of the file)
4. To return to the menu, click the Back button at the top left corner of your screen

ANNOUNCEMENTS

1. Your professor will normally post Announcements on a weekly basis.
2. These are general announcements to the class. If you have a specific question about Announcements then you should send an email to your professor using Mailbox.
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MAILBOX

View an email
1. In the left menu, click Mailbox
2. On the next page, look in the table and click the Subject of the email you wish to view

Reply to an email message
1. Read the email and scroll down to the bottom of the screen
2. Click the Reply button
3. Scroll down and enter your response in the Message box
4. Scroll down and click the Send Mail button
5. Note: If you scroll down and click Send and Delete button, then the original message will be removed from your Inbox

Send an Email
1. In the left menu, click Mailbox
2. Under Mailbox, click the sub-link Send Message
3. Select (or enter in the TO box) the email address of the person to whom you wish to send the email
   A. Instructor – check the box to the left of your professor’s name
   B. Student – click email specific students from the course and check the box next to the student(s) to whom you wish to send the email
4. Type in the Subject
5. Type in your message in the Message box
6. Scroll down and click the Send Mail button

Send an Attachment
1. In the left menu, click Mailbox
2. Under Mailbox, click the sub-link Send Message
3. Scroll down and click the words next to the paperclip icon that read Attach File
4. Select the number of files you wish to send from your computer (only one per message is recommended) and click the Continue button
5. Click the Browse button
6. In the pop-up window, select the folder and finally the file name that you wish to attach
7. Click the Open button
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8. Scroll down and enter the addressee’s email in the TO box (or check the box next to the instructor’s name
9. Type in the Subject
10. Type in your message in the Message box
11. Scroll UP and click the Send Mail button

Open an Attachment
1. In the left menu, click Mailbox
2. On the next page, look in the table under the Subject of column. If you see a paper clip icon next to the email Subject, then a document is attached to your email
3. Click the Subject of the email you wish to view
4. Look in the heading of your email for the word Attachments and click on the file name of the attachment
5. On the next page click the Download button
6. In the pop-up window, click the Open button
7. To return to the message click the Back button located in the upper left hand corner of your screen twice

ASSIGNMENTS

To Upload an Assignment
1. Complete your assignment in Microsoft Word and Save it as your last name and the Assignment Name. For example, “Morris Leadership Essay” is a properly named assignment. (Note: Sometimes Microsoft Word Perfect and Microsoft Works (.wps) files are not readable in the e-classroom. If your professor cannot read your Word Perfect or Works file, then save your file as a Rich Text File (.rtf) and upload it again.)
2. In the left menu, click the Assignments link
3. In the table, click the assignment name
4. Click the Browse button
5. A pop-up window will display the files located on your personal computer (PC). Click the folder and/or file name for the file you wish to upload
6. Click the Open button
7. Your file will be moved from the hard drive of your PC and copied into the APUS e-classroom
8. Enter relevant comments to the instructor in the Student Comments box (optional)
9. In the lower right hand portion of your screen, click the box that reads Submit for Grading (required)
10. Click the Submit button (required)
11. On the next page you can View your Assignment, Remove your assignment, email your assignment, or place a Comment on your uploaded assignment.
STUDENT WARNING: This course syllabus is from a previous semester archive and serves only as a preparatory reference. Please use this syllabus as a reference only until the professor opens the classroom and you have access to the updated course syllabus. Please do NOT purchase any books or start any work based on this syllabus; this syllabus may NOT be the one that your individual instructor uses for a course that has not yet started. If you need to verify course textbooks, please refer to the online course description through your student portal. This syllabus is proprietary material of APUS.

View the Assignment you just uploaded
1. Your screen will display a Student Folder icon and list the file name twice on the page
2. Click on the second file name which appears in bold font
3. In a few moments, your document will appear on your screen.
4. To return to your menu area, click the BACK button at the top of your screen.

To Remove your Uploaded File
1. Click the Remove file link

DISCUSSION BOARD

Answer Your Professor’s Question in Discussion Board
1. In the left menu, click the Discussion Board link
2. In the table, click Discussion Board name
3. On the next page, again click the Discussion Board name
4. Scroll down and click the REPLY TO THIS MESSAGE link
5. Enter your answer and click the Reply button

Respond to a Student’s Answer in Discussion Boards
1. Respond to a student’s answer by clicking the Subthread link located beneath their response
2. Click the Submit button

TEST & QUIZZES

Take the Test or Quiz
1. Your exams are located at the Test & Quizzes link and will appear when your professor activates them at the appropriate time.
2. When you are ready to take your exam, click the Test & Quizzes link.
3. In the table, click the name of the quiz.
4. (Note: In most cases, you can take the exam only once. Make sure you are prepared and have reserved adequate time to take the exam before you click on the quiz name.)

MY PROFILE
1. In the left menu, click on the My Profile link
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2. In the Grade Builder Summary table, you can view your grades for each graded requirement

COURSE MATERIAL INSTRUCTIONS

Open a File in Course Materials
1. In the left menu, click on the Course Materials link
2. Under Course Materials click the sub-link Course Folders
3. Click on the name of the folder specified by your professor
4. In the table, click on the name of the file you wish to open
5. Your screen will display a Folder icon and list the file name twice on the page
6. Click on the second file name which appears in bold font
7. In the pop-up window, click the Open button
8. In a few moments, your document will appear on your screen.
9. To return to your menu area, click the BACK button at the top of your screen.