NOTE to prospective students: This syllabus is intended to provide students who are considering taking this course an idea of what they will be learning. A more detailed syllabus will be available on the course site for enrolled students and may be more current than this sample syllabus. Summer term courses may be accelerated – please check the Ecampus Schedule of Classes for more information.

BA 574
DATA MANAGEMENT

COURSE CREDITS:
(3) This course combines approximately 90 hours of instruction, online activities, and assignments for 3 credits.

PREREQUISITES, CO-REQUISITES AND ENFORCED PREREQUISITES:
PREREQS: BA 573 [C]

COURSE DESCRIPTION FROM CATALOG
BA 574. DATA MANAGEMENT (3).

Familiarize students with the major activities involved in collecting and managing data for a data analytics project, including extracting information from relational databases, mapping organizational requirements into a data design, transforming data into information, exploring data warehouse concepts, and exploring basic concepts underlying noSQL data management and analysis methods. PREREQS: BA 573 [C]

CONTACT INFORMATION:
For more information, contact: CAROL LEDER (Undergrad), 541-737-3716; JAMES COAKLEY (Grad), 453 AUSTIN HALL, 541-737-3716

Sample syllabi may not have the most up-to-date information. For accuracy, please check the ECampus Schedule of Classes to see the most current instructor information. You can search for contact information by name from the OSU Home Page.

LEARNING RESOURCES:
This course is offered through Oregon State University Extended Campus. For more information, contact:
Web: ecampus.oregonstate.edu   Email: ecampus@oregonstate.edu   Telephone: 800-667-1465

- Although all the chapters are good and worthy of attention, this course will not cover it all. We may cover material from chapters 1, 2, 3, 7, 8, and 10 individual chapters can be purchased electronically from the publisher.

Other materials are either freely available online or have been created specifically for this course.

NOTE: For textbook accuracy, please always check the textbook list at the OSU Bookstore website. Sample syllabi may not have the most up-to-date information.

Students can also click the ‘OSU Beaver Store’ link associated with the course information in the Ecampus schedule of classes for course textbook information and ordering.

COURSE SPECIFIC MEASURABLE STUDENT LEARNING OUTCOMES:

- Define, differentiate, and apply key data management concepts in the context of organizational goals.
- List and contrast types and components of data management systems.
- Explain several strategies for improving the organizational value and performance of database systems.
- Explain factors which drive data warehousing efforts.
- List and explain key data integration issues commonly observed in multi-tiered, heterogeneous, and cloud-service data environments.
- Compare SQL and NOSQL data structures identifying some strengths and weaknesses.
- Logically formulate queries against relationally-organized data sets.
- Formulate and explain the function of selected SQL data management commands.

COURSE CONTENT AND POLICIES:

Course activities are expected to include:

- 3 or 4 synchronous Webex meetings some including student presentations
- Various discussions and exercises as assigned – individual feedback will be provided by the instructor
- A data design project wherein students apply concepts from the course to create a report for a hypothetical (or real) organization of their choice
- Review of trade articles to better explore, differentiate, and apply course concepts
- Analysis of a real big data conversion case from relational to document store technology

Topical Units Include:

- Understanding and Differentiating Data, Information, and Knowledge
- Introduction to Data Management
- Database Basics
- Database Design Perspectives
- Comparing Relational and NoSQL Designs
- SQL Fundamentals
- Creating and Managing a Databases in the Cloud
- Master Data Management and Data Stewardship

EVALUATION OF STUDENT PERFORMANCE:
70% of the course grade will be driven by weekly class assignments and activities
30% based on the final course project

COURSE SITE LOGIN INFORMATION
Information on how to login to your course site can be found HERE.

STATEMENT REGARDING STUDENTS WITH DISABILITIES
Oregon State University is committed to student success; however, we do not require
students to use accommodations nor will we provide them unless they are requested by
the student. The student, as a legal adult, is responsible to request appropriate
accommodations. The student must take the lead in applying to Disability Access
Services (DAS) and submit requests for accommodations each term through DAS
Online. OSU students apply to DAS and request accommodations at our Getting
Started with DAS page.

Accommodations are collaborative efforts between students, faculty and Disability
Access Services (DAS). Students with accommodations approved through DAS are
responsible for contacting the faculty member in charge of the course prior to or during
the first week of the term to discuss accommodations. Students who believe they are
eligible for accommodations but who have not yet obtained approval through DAS
should contact DAS immediately at 541-737-4098.

ACADEMIC INTEGRITY AND STUDENT CONDUCT (OSU POLICY)
Students are expected to be honest and ethical in their academic work. Intentional acts
of academic dishonesty such as cheating or plagiarism may be penalized by imposing
an “F” grade in the course.

Student conduct is governed by the universities policies, as explained in the Office
of the Dean of Student Life: Student Conduct and Community Standards. In an academic
community, students and faculty, and staff each have responsibility for maintaining an
appropriate learning environment, whether online or in the classroom. Students, faculty,
and staff have the responsibility to treat each other with understanding, dignity, and respect.

Students are expected to conduct themselves in the course (e.g. on discussion boards, email postings, etc.) in compliance with the university's regulations regarding civility. Students will be expected to treat all others with the same respect as they would want afforded to themselves. Disrespectful behavior (such as harassing behavior, personal insults, inappropriate language) or disruptive behaviors are unacceptable and can result in sanctions as defined by Student Conduct and Community Standards.

For more info on these topics please see:
- Statement of Expectations for Student Conduct
- Student Conduct and Community Standards - Offenses
- Policy On Disruptive Behavior

PLAGIARISM
You are expected to submit your own work in all your assignments, postings to the discussion board, and other communications, and to clearly give credit to the work of others when you use it. Academic dishonesty will result in a grade of “F.”

- Statement of Expectations for Student Conduct
- Avoiding Academic Dishonesty

TECHNICAL ASSISTANCE
If you experience computer difficulties, need help downloading a browser or plug-in, assistance logging into the course, or if you experience any errors or problems while in your online course, contact the OSU Help Desk for assistance. You can call (541) 737-3474, email osuhelpdesk@oregonstate.edu or visit the OSU Computer Helpdesk online.

- COURSE DEMO
- GETTING STARTED

TUTORING
For information about possible tutoring for this course, please visit our Ecampus NetTutor page. Other resources include:

- Writing Center
- Online Writing Lab

STUDENT EVALUATION OF TEACHING
The online Student Evaluation of Teaching form will be available in week 9 and close at the end of finals week. Students will be sent instructions via ONID by the Office of Academic Programs, Assessment, and Accreditation. Students will log in to “Student Online Services” to respond to the online questionnaire. The results on the form are anonymous and are not tabulated until after grades are posted. Course evaluation results are very important and are used to help improve courses and the learning experience of future students. Results from questions are tabulated anonymously and go directly to instructors and unit heads/supervisors. Unless a comment is “signed,” which will associate a name with a comment, student comments on the open-ended questions are anonymous and forwarded to each instructor. “Signed” comments are forwarded to the unit head/supervisor.

REFUND POLICY INFORMATION
Please see the Ecampus website for policy information on refunds and late fees.