

ROUTE SHEET
PERMANENT COURSE CHANGE/APPROVAL
(Attach course change request form)

Prefix & Course
Number IS 520 Title Introduction to Database Systems

Abbreviation for Schedule (20 characters): Intro Database Sys

Nature of course request (Mark all that apply)

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Add a course | <input type="checkbox"/> Prerequisite change | <input type="checkbox"/> LACC course |
| <input type="checkbox"/> Delete a course | <input type="checkbox"/> Number/Prefix change | <input type="checkbox"/> Undergraduate course |
| <input type="checkbox"/> Title change | <input type="checkbox"/> Description change | <input checked="" type="checkbox"/> Graduate course |
| <input type="checkbox"/> Writing Intensive (WI) | <input type="checkbox"/> Multicultural Diversity (D) | <input type="checkbox"/> 400/500 course |
| <input type="checkbox"/> Quantitative Literacy (Q) | <input type="checkbox"/> Honors course (H) | <input type="checkbox"/> Other: _____ |

1) Faculty Sponsor Signature Je Liu by Sarah Alvarado Date 1/17/14

2) Dept./Program Coordinator N/A Date _____

3) Division Chair [Signature] Date 1/17/14

Curriculum Chair [Signature] Date 1/17/14

- 4) Faculty Senate Committees: The Curriculum Committee reviews all course proposals except for honors and graduate courses, which are reviewed instead by the Honors Committee or Graduate Committee. All 400/500 "split" courses must be approved by both the Curriculum and Graduate Committees. All curriculum committee decisions are forwarded to the Senate Executive Committee.

a) Curriculum Committee Chair _____ Date _____

___ N/A ___ Approved ___ NOT Approved

b) Graduate Committee Chair _____ Date _____

___ N/A ___ Approved ___ NOT Approved

c) Honors Committee Chair _____ Date _____

___ N/A ___ Approved ___ NOT Approved

5) Faculty Senate President _____ Date _____

___ Approved by the Senate Executive Committee

___ Approved by the Senate ___ NOT Approved (Return to sponsor)

6) Appropriate Dean _____ Date _____

___ Approved ___ NOT Approved (Return to Faculty Senate President)

7) Provost/VPAA _____ Date _____

___ Approved ___ NOT Approved (Return to Faculty Senate President)

REQUEST FORM

PERMANENT COURSE APPROVAL

Initiated by (print): Jie Liu Date: 1.17.14

ADDING A COURSE

Prefix/Number	Descriptive Title	Cr. Hours
IS 520	Introduction to Database Systems	4

Catalog Description:

This course studies the basic concepts of relational database covering, relational model, normalization, and information maintenance and information retrieving through SQL. Other topics discussed include the history of data processing, database management systems and their vendors, and trends in the area of data processing.

Course Goals and Objectives:

Upon completion of this course, students will be able to:

- Evaluate DBMSs
- Interact with DBMSs through SQL statements to retrieve information from databases, update/delete/insert records into databases, and using SQL provides features to formulate data in the way for easy consumption
- Evaluate the design of a database and redesign the database, if necessary, to make sure it conforms to highest normal forms
- Design databases using ER model
- Knowledgeable regarding the current trends in the areas related to database development and DBMS
- Evaluate existing DBMSs in the market
- Discuss important trends and events related to databases
- Evaluate different approaches in data store and data processing

Justification for adding the course (e.g. alignment with other institutions, program revision, etc.):

Program revision.

Briefly describe other WOU faculty/programs consulted (attach additional sheet(s) if necessary).

Faculty in the Computer Science Division has been consulted.

Faculty and Facilities Needed:

1 Instructor, 1 lecture classroom

Attach brief course outline

IS520 Introduction to Database Systems

Course Syllabus, Fall 2013

Time/Place : TR 12:00 AM –13:50 at ITC 305
Instructor/Office/Phone : Jie (Jay) Liu / ITC306D / 8-8989
Office Hours : Refer my page at www.wou.edu/~liuj
Email Address : liuj@wou.edu

Required Text:

Databases DeMYSTiFieD, 2nd Edition by Andy Oppel 2ed. from McGraw-Hill Osborne Media, ISBN 978-0071747998.

Course Description:

This course studies the basic concepts of relational database covering, relational model, normalization, and information maintenance and information retrieving through SQL. Other topics discussed include the history of data processing, database management systems and their vendors, and trends in the area of data processing.

Course Goal:

Through lectures, exercises, and labs, students are expected to gain a solid understanding regarding (1) why an organization needs to store and process data, (2) the different types of data processing applications, and (3) advantages of relational model. Students also will learn SQL, the universal language to communicate with a Database Management System (DBMS).

Learning Outcomes:

Upon completion of this course, students will be able to:

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- Interact with DBMSs through SQL statements to retrieve information from databases, update/delete/insert records into databases, and using SQL provides features to formulate data in the way for easy consumption
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Grading:

Labs and Exercises	20%	
Chapter End Quizzes	05%	
Quizzes		15%
Midterm #1	25%	
Research Project		05%
Midterm #2	30%	

The cut off for letter grades are: A 90%, B 80%, C 70%, D 60%

Project:

The term project is required (details to be given)

Labs and Exercises:

Labs and exercises have to be done individually although discussions on general subjects are strong encouraged.

Chapter End Quizzes:

You need to work on the end of chapter quiz for each chapter. First you answer the quiz, then you check your results against the ones provided in the book. If your answer is different from the ones provided in the book, try to records reason for the differences. The end of chapter quizzes are open book, notes, and Internet, as long as it is done individually.

Quizzes and Exam:

There will be three quizzes. Midterm #1 will be given on 10/25. You may bring one sheet of notes to the midterm. Our final is comprehensive. You may bring two sheets of notes to the final.

Class Philosophy

I would like very much for students to contribute to the overall learning process. If a student has a question, an idea, an answer to a question, or a suggestion, please let us all hear it so, hopefully, others may learn something from it.

Tentative Schedule:

Date	Chapter	Lab Assigned	Exe. Assigned	Misc.
Week 1	1, 2		E1	
Week 2	3	L1		Q1 (10/10/13)
Week 3	4		E2	
Week 4	6			Q2 (10/24/13)
Week 5	Midterm, 6			Mid (Given on 10/31/13)
Week 6	7	L2	E3	
Week 7	8			Q3 (11/14/13)
Week 8	9		E4	
Week 9	10			Mid #2 (11/26/2013)
Week 10	Presentation			
Week 11	Final			

Note:

1. All the exercises and labs are due at the beginning of the class on the due day. All exercises and labs must be handed in on time ready or not. Exercise or labs that are ONE week late will not be accepted. Exercises or labs turned in late will receive a 20% reduction in credit for each working day. Exceptions to this rule are rare and they must be cleared with the professor first.
2. Actual class schedule may vary considerably from the estimated -- pay attention.
3. Most of the labs and exercises will take many hours to complete. Start early on each lab and allow about twice as much time as you think you will need.
4. The expected attendance rate is 99%. Students who miss a class need to read the materials by him/her self first.
5. The detailed schedule is given so you can preview the materials.

Academic Dishonesty:

Academic dishonesty refers to cheating: a serious ethical issue. You are encouraged to learn from each other and to help each other on concepts discussed in class; however, not directly on the labs and exercises. Copying from others' lab and exercise and cheating on quizzes and exams are grounds for a zero on the exercise/lab/exam/quiz for both parties involved and possibly a failure on the course. **Written work that appears to be copies of each other will not be given credit. If I suspect an Academic Dishonesty issue, I will call you into my office and discuss the options you have. "Helping" or "being helped by" another student or the appearance of doing so during a quiz or an exam will be considered academic dishonesty. This will be grounds for a zero on the quiz or exam for all parties involved, no questions asked (I modified this statement from Bob's similar ones).**