



INFO 463: Course Syllabus

Name	Sect.	Ref. #	Time	Day(s)	Room	Building
Reengineering Technology in Organizations	E02	12554	7:00 - 9:40 PM	Mondays	2140	Business Building

Instructor Peter Aiken. I received my doctorate in Information Technology from the George Mason University, School of Information Technology and Engineering in 1989. The school used the following definition of information technology: *Information Technology is a discipline that encompasses the design, development, and application of hardware and software systems to facilitate human endeavors.*

Contact

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 not my: Yesterday is history, Tomorrow is a mystery and
 quote: Today is a gift - that's why it's called the Present

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- If you fax me any material please call and leave me a message so I can be certain to separate your fax from the others in the in-box.
- My office phone rolls over to voice mail after three rings - you can always leave a message there for me. I check my messages regularly, especially when I'm traveling, and I will return your call.
- I spend about 50% of my research time working at my home office, please feel free to try to contact me there. At home I often hide from sales calls behind the answering machine. If you get the answering machine, press and hold any key on your touch-tone phone to by-pass the recorded message and please announce

yourself. If I'm there, I'll pick up unless I'm attempting deep concentration. Regardless, please leave me a message - I will return your call.

- I'm often required to travel and when I do I leave this information on my office answering machine.
- This semester I'll usually be spending approximately two days each week in New York City where I'm working on sponsored research with the Deutsche Bank.

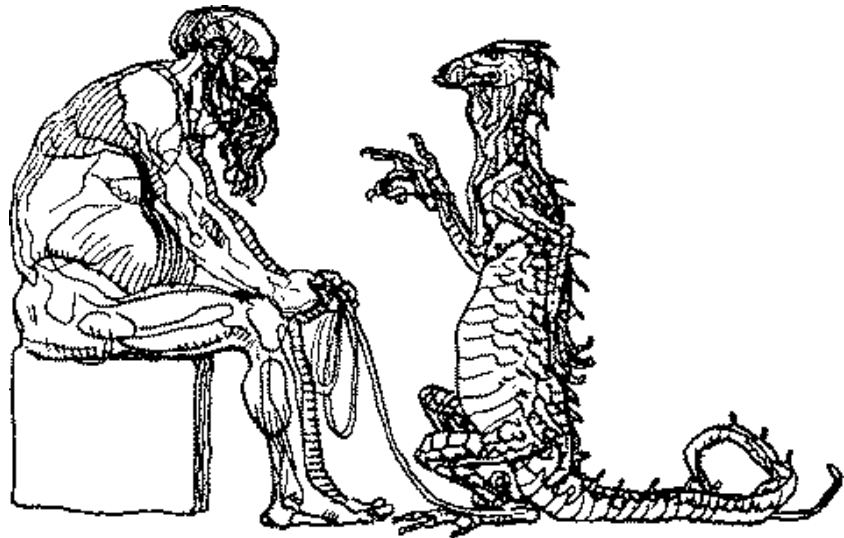
Office Hours My office hours are before class my classes from 4:00-7:00 PM and other times by appointment. In addition to my regularly scheduled office hours, I'll stick around as long as required after the evening class to answer any questions.

Schedule My class schedule for the Fall 1999 semester is INFO 463 on Mondays and INFO 361 on Tuesdays. Both classes are from 7-9:40 PM.

Prerequisite Pre or co-requisites: BUS 461, and permission of the instructor, and junior standing.

Catalog A survey of legacy system reengineering technologies in which the student becomes familiar with a variety of tools used in practice and has the opportunity to develop applications using these tools under supervision. Selection of technologies is determined each semester.

Objectives To provide advanced knowledge, understanding, and practice of various systems and business reengineering techniques as they are often encountered in the real world.



Texts Michael L. Brodie & Michael Stonebraker *Migrating Legacy Systems: Gateways, Interfaces & The Incremental Approach* Morgan Kaufmann Publishers, 1995 (\$30.80 at Amazon.com).

Melissa Cook *Building Enterprise Information Architectures: Reengineering Information Systems* Prentice Hall 0-13-440256-1 (\$23.96 at Amazon.com).

Supplemental as assigned.

Attendance You are responsible for all material discussed in class.

Grading Grades will be determined by a combination of the research project and your grades on several tests. The test grades will be averaged with the project grade.

Required Fine Print (Fall)

Religion Friday, September 10th is the deadline for students to provide advance written notification to instructors of intent to observe religious holidays

Graduation Friday, September 24th is the last day for Fall degree candidates - to submit graduation applications to you advisers for December degrees.

Withdrawal Friday, October 22nd is the last day to withdraw from a course with a mark of "W".

Disabilities Students with special requirements must inform the instructor of these within the first two weeks of the semester. Also, in order to receive special considerations, these requirements must be certified by the University Office of Academic Support.

Weather If classes are canceled due to inclement weather, any scheduled tests or assignment due dates will be automatically moved to the next regular class meeting.

Ethics Students must abide with the University computing ethics policy.

Holidays "It is the policy of VCU to accord students, on an individual basis, the opportunity to observe their traditional religious holidays. Students desiring to observe a religious holiday of special importance must provide advance written notification to each instructor by the end of the second week of classes. Instructors are encouraged to avoid scheduling on these dates one-time only activities which cannot be replicated. Faculty members are expected to make reasonable accommodations to students who are absent because of religious observance through such strategies as providing alternative assignments or examinations or granting permission for audio or video recordings and the like."

Honor Code All submitted work is considered "pledged" according to the VCU Honor System. Cheating and plagiarism are unacceptable and will be handled in accordance with the Academic Integrity Policy as specified in the *VCU Resource Guide*. Except in those cases where team work has been expressly permitted all work must be done individually by each student.

Tentative Schedule

Week	Date	Text	Chapters	Class Focus
1	8/30/99			Course Overview
2	9/6/99			☞ ☞ ☞ ☞ ☞ ☞ Labor Day Holiday – No Class!
3	9/13/99	BEIA	1-3	Historical Perspective, Enterprise Information Architecture, Architecture Design - Introductions to: Reengineering V1, V2
4	9/20/99	BEIA	4-5	Process and Data Architectures Introductions to: Engineering, Architecture, Information Engineering
5	9/27/99	BEIA	6-8	Owner's View and Technology Architecture, Operationalizing Architectures
6	10/4/99	MLS	1-2	Problems and Possibilities of Legacy IS Migration & Migrating Decomposable Legacy ISS (HOMEWORK: Model 'successful legacy IS migration')
7	10/11/99			☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞ <i>Mid-term Exam!</i>
8	10/18/99	MLS	3-4	Case Study 1: Money Central's Cash Management Services & Migrating Semi-decomposable Legacy ISs (HOMEWORK: Model the first paragraph on p. 69 & paragraph 2 on p. 82)
9	10/25/99	MLS	5-6	Case Study 2: Global Telecom's Telephone Provisioning System & Migrating Non-decomposable Legacy ISs
10	11/1/99	MLS	7-8	Migrating Legacy ISs: A General Case & Distributed Computing & Incremental Migration
11	11/8/99	MLS	9-10	Tool Wish List & A Practical Implementation w/ Migration Tools
12	11/15/99			☞ ☞ ☞ Project Work Day – No Lecture!
13	11/22/99			☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞ Final Exam
14	11/29/99			Project specific lecture
15	12/6/99			Project specific lecture
16	12/13/99			Project specific lecture