

CMSC 735

Fall '01

Tentative Class Schedule

Date	Topic	
Aug 29	Motivation, Measurement background	VB
Sep 3	Labor Day, HOLIDAY	
Sep 5	Models and Measures (Resource M&M)	VB
Sep 10	Models and Measures (Resources)	VB
Sep 12	NO CLASS	
Sep 17	Models and Measures (Changes & Defects)	VB
Sep 19	Models and Measures (Defects, Process)	VB
Sep 24	Models and Measures (Process, Product)	VB
Sep 26	Models and Measures (Product)	VB
Oct 1	Models and Measures (Product)	VB
Oct 3	Measurement Frameworks (Goal/Question/Metric Paradigm)	VB
Oct 8	Measurement Frameworks (GQM, ...)	VB
Oct 10	Lecture on Requirements Reading Procedures/Observation	FS/JC
Oct 15	Organizational Frameworks (Quality Improvement Paradigm, Experience Factory)	VB
Oct 17	Organizational Framework (QIP, EF, PDCA, CMM, ...) (Requirements Reading Assignment)	FS/JC
Oct 22	Experimental Methods (Sample Experiments)	VB
Oct 24	Requirements Reading Feedback/Assignment	FS/JC
Oct 29	Experimental Methods (Sample Experiments)	VB
Oct 31	Sample Experiments (Combining Studies)	VB
Nov 5	Sample Studies (Resource Modeling)	VB
Nov 7	NO CLASS	
Nov 12	Sample Studies (Defect Analysis)	VB
Nov 14	Sample Studies	VB
Nov 19	NASA/SEL as an Experience Factory	VB
Nov 21	NASA/SEL as an Experience Factory	VB
Nov 26	Sample Studies	VB
Nov 28	NO CLASS (SEL Workshop)	
Dec 3	Other topics	VB
Dec 5	Other topics	VB
Dec 10	Review of Class Experiment	VB/FS/JC

Instructor: Professor Victor R. Basili

Meeting Times: MW 10 – 11:30 AM

Text: There is no official text. Copies of slides will be made available on a web site.

www.cs.umd.edu/class/fall2001/cmssc735/index.html

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Office Hours: MW 11:30 – 12:30, and by appointment

Homework: There will be graded homework assignments applying the concepts learned and searching, reading, analyzing the literature

Exams: There will be a final exam

This course has been scheduled for one hour and fifteen minutes, twice a week (29 meetings). A course normally meets for 36 hours during the semester. We will not meet every time slot. As a start, the following time slots will not be used for a regular class: Sept. 12, Nov. 7, Nov. 28.

Supplementary Outside Reading for CMSC 735

- Bache & Bazzana, Software Metrics for Product Assessment, McGraw Hill, 1994.
- Basili, A Quantitative Approach to Software Management and Engineering, Draft Notes, 1994.
- Basili, Models and Metrics for Software Management and Engineering, IEEE Computer Society Press, 1980.
- Boehm, Software Engineering Economics, Prentice Hall, 1981
- Boehm, et. al., COCOMO II, Prentice Hall, 2001.
- Conte, Dunsmore, & Shen, Software Engineering Metrics and Models, Benjamin/Cummings, 1986.
- DeMarco, Why Does Software Cost So Much, and other puzzles about the Software Age, Dorset House Publishing, 1995.
- Fenton & Pfleeger, Software Metrics: A Rigorous and Practical Approach, PWS Publishing Company, 1997
- Garmus & Herron, Measuring the Software Process, A Practical Guide to Functional Measurements, Yourdan Press Computing Series, 1996.
- Grady & Caswell, Software Metrics: Establishing a Company-Wide Program, Prentice-Hall, 1987.
- Grady, Practical Software Measurement for Project Management and Process Improvement, Prentice Hall, 1992
- Hetzel, Making Software Measurement Work: Building an Effective Measurement Program, QED Publishing Group, 1993.
- Humphrey, Introduction to the Personal Software Process, SEI Series in Software Engineering, 1997.
- Paulk, et. al. The Capability Maturity Model, Guidelines for Improving the Software Process, SEI Series in Software Engineering, 1995.
- Putnam & Myers, Measures for Excellence, Yourdan Press, 1992.
- van Solingen & Berghout, The Goal/Question/Metric Method, McGraw Hill, 1999.