Minnesota State College Southeast

COMC 2750: UML Modeling and Iterative Process

A. COURSE DESCRIPTION

   Credits: 2
   Lecture Hours/Week: 1
   Lab Hours/Week: 2
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   This course covers fundamental concepts of object modeling, the process (using the Agile) and notation (using UML) of object oriented analysis and design, the use of design tools, strategies and patterns for applying object oriented methodologies to realistic applications, and design implementation. (Prerequisite or concurrent enrollment in COMC2742) (2 Credits: 1 lecture/1 lab)

B. COURSE EFFECTIVE DATES: 05/04/1998 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
D. LEARNING OUTCOMES (General)
   1. Determine problem domain classes
   2. Describe use cases
   3. Determine human interaction classes
   4. Determine data management classes
   5. Determine system interaction classes
   6. Determine actors/participants
   7. Determine place classes
   8. Determine tangible thing classes
   9. Determine descriptive classes
  10. Determine transaction classes
  11. Determine class attributes
  12. Determine class inheritance
  13. Determine object aggregations
  14. Determine object associations
  15. Determine class methods (behaviors)
  16. Determine problem domain dynamics
  17. Determine window objects
  18. Determine report objects
  19. Determine human interaction scenarios
  20. Determine system interaction dynamics
  21. Determine data management dynamics
  22. Apply reuse mechanisms
  23. Implement HI-PD sequence diagram
  24. Implement HI-PD-DM sequence diagram
  25. Display professional attitude

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   This course was previously called Object Oriented Analysis and Design