

## Recommended Study Materials for Midterm Exam

1. Software Architecture
  - a. Main Themes  
[www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/SoftwareArchitecture.ppt](http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/SoftwareArchitecture.ppt)
  - b. UML notations  
[www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/notation.ppt](http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/notation.ppt)
  - c. OCD structure  
[www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Lectures/StudyGuideOCD.htm](http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Lectures/StudyGuideOCD.htm)
  - d. Patterns like MVC and PubSub  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/ProgramStructure.pptx>  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Lectures/CSE681Note8.htm>
  - e. Interfaces and Object Factories  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/code/Parser/>
2. C# language
  - a. Object model  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/CSharpVsCpp.ppt>  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/code/MethodParamDemo/>
  - b. Delegates  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/delegateStructure.vsd>  
[www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/CSharp/code/Net3.5Stuff/delegates/](http://www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/CSharp/code/Net3.5Stuff/delegates/)
  - c. Linq  
[www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/CSharp/code/LinqExamples/](http://www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/CSharp/code/LinqExamples/)
3. .Net Framework
  - a. CLR  
[www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/CSharpProgramming.ppt](http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/CSharpProgramming.ppt)
  - b. AppDomains, interception – not on Midterm F2013  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/applicationDomains.ppt>  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/interception.ppt>
4. Threading
  - a. Threads, locks, events , threading benefits and liabilities  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/coretechnologies/ThreadsAndSynchronization/Presentations/ThreadsWinAndNet.pptx>
  - b. Common uses  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/coretechnologies/ThreadsAndSynchronization/code/BlockingQueueCS-Monitor>  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/ThreadsAndSynchronization/code/QueuedMessages/>

5. Projects
  - a. Architecture, design, implementation  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Projects/>
6. XML processing
  - a. Meta language structure  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/xml.ppt>
  - b. Linq code  
[www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/CSharp/code/LinqExamples/](http://www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/CSharp/code/LinqExamples/)
7. Interfaces and object factories
  - a. Ideas  
[www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/CSharpProgramming.ppt](http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/Presentations/CSharpProgramming.ppt)
  - b. Code  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CSE681/code/DllLoaderDemo/>
8. WCF
  - a. Ideas, simple code  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/SocketsAndRemoting/presentations/windowsCommunicationFoundation.pptx>
  - b. How used in projects  
[http://www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/SocketsAndRemoting/code/WCF\\_Fawcett\\_Examples/HandCraftedWsHttpServices/](http://www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/SocketsAndRemoting/code/WCF_Fawcett_Examples/HandCraftedWsHttpServices/)
9. WPF
  - a. Ideas  
<http://www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/WindowsProgramming/Presentations/WindowsPresentationFoundation.ppt>
  - b. Code  
[http://www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/WindowsProgramming/code/Wpf\\_AttachedProperties/](http://www.ecs.syr.edu/faculty/fawcett/handouts/CoreTechnologies/WindowsProgramming/code/Wpf_AttachedProperties/)
  - c. Good structure  
Class discussions