CSE 7340
Service-Oriented Computing
Summer 2009

Course Description

Service-oriented computing (SOC) is the computing paradigm that utilizes services as fundamental elements for developing applications. Service providers expose capabilities through interfaces. Service-oriented architecture maps these capabilities and interfaces so they can be orchestrated into processes. Fundamental to the service model is the separation between the interface and the implementation, such that the invoker of a service need only (and should only) understand the interface; the implementation can evolve over time, without disturbing the clients of the service.

Topics include: Web architecture, HTTP, XML, SOAP, REST, and developing interfaces that connect to independent services. The course will be of interest to those interested in creating and/or aggregating web services and developing user interfaces for the display of those services.

Textbook:

- Coyle, XML Web services and the Data Revolution
- Allemang, Hendler: Semantic Web for the Working Ontologist
- Plus handouts

Grading:

- Exam 1 20% (session 3)
- Exam 2 20% (session 4)
- Assignments 30%
- Semantic Web service 30%