Sessions begin each morning at 8:30. Drinks and snacks will be available during morning and afternoon breaks.

**Wednesday, September 21st**

Morning Session:
* Set up computers with necessary applications.
* Schema design assignment.

Afternoon Session:
* Introduction to SOAP and WSDL
* Example SOAP client from WSDL.
* (Coding) Write a client to an existing web service.

Optional Evening Session:
* Marlon Pierce, University of Indiana:
  Designing portlets as browser-based client to web service, and using the Java COG to talk to Globus web services.

**Thursday, September 22nd**

Morning Session:
* Current best practices in Web services.
* Development and deployment of a web service in Apache Axis
* (Coding) Development of a simple web service.

Afternoon Session:
* Working with Attachments.
* (Coding) Add method with attachments to web service.
* Web service performance issues.

Optional Evening Session:
* Fred Pieper, IAGT:
  GIS web services.

**Friday, September 23rd**

Morning Session:
* Advanced topics, including security and session tracking.
* Axis-2 demo.
* Discussion, wrap up, and introduction to IRIS resources for web service development.

Workshop ends at 12:30.