1. **Course number and name:** CSCI 5436 Distributed Web Systems Design

2. **Credits and contact hours:** 3 credit, 3 contact

3. **Instructor’s or course coordinator’s name:** Wen-Ran Zhang, PhD

4. **Text book, title, author and year:** Internet & World Wide Web-How to Program, 5th Ed, Deitel  
   a. **Other supplemental materials:** None

5. **Specific course information**  
   a. **Brief description of the content of the course (Catalog Description)** This course involves programming methodologies for the World Wide Web. Topics include: Client-side programming, distributed transactions, remote procedure calls, component objects, server side programming and network load balancing. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.  
      **Prerequisites:** A minimum grade of “C” in CSCI 3432

   b. **Indicate whether a required, elective, or selected elective course in the program**  
      Required course for BS-CS since 2013-2014 catalog.

6. **Specific goals for the course**  
   a. **Specific outcomes of instruction, ex. The student will be able to explain the significance of current research about a particular topic.**  
      • Recently moved from elective to required course. No assessment to student outcomes mapping available at this time.

   b. **Student Outcomes**  
      N/A

7. **Brief list of topics to be covered**  
   - Client-Side Development
   - HTML5 and CSS
   - JavaScript Basics and Advanced
   - Ajax and XML
   - Server-Side Development
   - Web Servers
   - Database and PHP
   - Java Server Faces Web Applications
   - Web Services in Java