1. *Course number and name:* CSCI 5538 Wireless and Mobile Systems

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

3. *Instructor’s or course coordinator’s name:* Wenjia Li, PhD

   
   a. *Other supplemental materials:* None

5. *Specific course information*
   a. *Brief description of the content of the course (Catalog Description)*
      This course deals with the basics of cellular concept and mobile communication systems, multiple radio access procedures and channel allocation techniques, the architecture and functioning of satellite systems including global positioning systems, different wireless LAN technologies and personal area networks with an emphasis on Bluetooth networks and mobile application development required for mobile and wireless handheld devices like PDAs and cell phones.
      
      *Prerequisites:* A minimum grade of “C” in CSCI 5332 and MATH 1441
   
   b. *Indicate whether a required, elective, or selected elective course in the program*
      Elective course for BS-CS.

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.*
      
      - Not a required course. It is not used to assess student outcomes.

   b. *Student Outcomes*
      
      N/A

7. *Brief list of topics to be covered*
   
   - Mobile Radio Propagation
   - Cellular Concept
   - Multiple division Techniques
   - Channel Allocation
   - Mobile Communication Systems
   - Wireless MANs, LANs, PANs
   - Mobile App Programming using Android