#### **CSCI 344/715**

Lecturer: Dr. Simina Fluture

#### Lecture #6

### **Topics:**

**Signal-and-Continue Monitor** 

• Savage-Cook problem (if not completed) Condition variables – Java notification objects

**Readings:** Web and class lectures

[SH] ch5 (5.7)

# Java Monitors - Notification Objects

It is possible to use a notification object that inside the monitor will play the role of a named condition variable.

```
Shared object: Object obj = new Object();
```

## Reader/Writer monitor with notification objects

A thread calls a non-synchronized service method in the monitor, enters a synchronized block on a notification object, and then calls a private synchronized method. The thread might block on the notification object waiting for a signal.

To avoid deadlock, the thread must leave the synchronized method before waiting inside the notification object. After a signal, the thread reenters the monitor via a service method call.