**Week 1: Course Overview (2/1), Android Overview (2/3)**

Readings & Tutorials:

* [What is Android?](http://developer.android.com/guide/basics/what-is-android.html) [Dev Guide]
* [Eclipse Android Development](http://developer.android.com/guide/developing/eclipse-adt.html) [Dev Guide]
* [Tutorial: Eclipse workbench](http://www.eclipse.org/resources/resource.php?id=409)
* [Tutorial: Hello World](http://developer.android.com/resources/tutorials/hello-world.html) [Resources]
* [Application Fundamentals](http://developer.android.com/guide/topics/fundamentals.html) [Dev Guide]

Homework Out: [student survey](http://www.cs.jhu.edu/~joanne/cs250/survey.txt), [phone & app exploration](http://www.cs.jhu.edu/~joanne/cs250/a1.html), start journals

Homework In: Student Survey

**Week 2: Android Applications**

Readings & Tutorials:

* [XML basics](http://www.w3schools.com/xml/default.asp)
* [Tutorial: Notepad](http://developer.android.com/resources/tutorials/notepad/index.html) [Resources]
* [Samples](http://developer.android.com/resources/samples/get.html) [Resources]
* [Manifest File](http://developer.android.com/guide/topics/manifest/manifest-intro.html) [Dev Guide]
* [Common Tasks [Resources]](http://developer.android.com/resources/faq/commontasks.html)
* [Intents & Intent Filters](http://developer.android.com/guide/topics/intents/intents-filters.html) [Dev Guide]
* [Activity Class](http://developer.android.com/reference/android/app/Activity.html) [Reference]
* [Intent Class](http://developer.android.com/reference/android/content/Intent.html) [Reference]

[Homework Out](http://www.cs.jhu.edu/~joanne/cs250/a2.html): Notepad & other sample revisions, individal app designs for XXX

Homework In: exploration, project ideas

**Week 3: Teamwork (attendance required 2/17!)**

Readings & Tutorials:

* [User Interface](http://developer.android.com/guide/topics/ui/index.html) (including all subTopics) [Dev Guide]
* [Tutorial: Hello Views](http://developer.android.com/resources/tutorials/views/index.html) [Resources]
* [Best Practices: UI Guidelines](http://developer.android.com/guide/practices/ui_guidelines/index.html) (including all subtopics) [Resources]
* [View Class](http://developer.android.com/reference/android/view/View.html) [Reference]

[Homework Out](http://www.cs.jhu.edu/~joanne/cs250/a3.html): Team: group XXX design, create blog space, keep meeting reports, concept proposal

Homework In: code revisions, individual XXX designs

**Week 4: HCI/UX/UI (2/22), Consulting Guest Lecture (2/24)**

Readings & Tutorials:

* *Effective UI* by Jonathan Anderson [(in MSEL on-line collection)](http://proquest.safaribooksonline.com.proxy1.library.jhu.edu/9781449380465): Chapters 1-3, 5.2-5.3

Homework Out: [user experience](http://www.cs.jhu.edu/~joanne/cs250/a4.html), [NICU app](http://www.cs.jhu.edu/~joanne/cs250/a5.html)

Homework In: (readings)

**Week 5: User Interface Design**

Readings & Tutorials

* *Effective UI* by Jonathan Anderson [(in MSEL on-line collection)](http://proquest.safaribooksonline.com.proxy1.library.jhu.edu/9781449380465): Chapter 6
* *Designing for Interaction* by Dan Saffer, 2010 [(in MSEL on-line collection)](http://proquest.safaribooksonline.com/?uiCode=johnshopkins&xmlId=9780321679406) - this is a great little book, please read all

Homework Out: midterm study, Project: [UI design](http://www.cs.jhu.edu/~joanne/cs250/a6.html) - research

Homework In: team XXX designs, blog, project proposal, UX critiques

**Week 6: Creating UIs in Android, MIDTERM 3/10**

Readings & Tutorials: review Week 3 materials

Homework Out: Project: [UI design](http://www.cs.jhu.edu/~joanne/cs250/a6.html) - create & presentation

Homework In: midterm study

**Week 7: Android, Team UI Presentations**

Readings & Tutorials: review above, see below

Homework Out:

Homework In: NICU interface, Project UI research, designs & presentations

### SPRING BREAK!

**Week 8: Android, Eclipse & Versioning tools (Ken)**

Readings & Tutorials:

* [Testing Tutorial](http://developer.android.com/resources/tutorials/testing/helloandroid_test.html) [Resources]
* [Testing Overview](http://developer.android.com/guide/topics/testing/index.html) (incl. subtopics) [Dev Guide]
* [Testing from Eclipse](http://developer.android.com/guide/developing/testing/index.html) [Dev Guide]
* [Activity Testing](http://developer.android.com/resources/tutorials/testing/activity_test.html) [Resources]
* [Using Actual Device](http://developer.android.com/guide/developing/device.html) [Dev Guide]
* [Debugging](http://developer.android.com/guide/developing/debugging/index.html) (incl. subtopics) [Dev Guide]

Homework Out: NICU v1, Project: development schedule, final designs

Homework In: (none)

**Week 9: Android (4/7 Prof. Ahmad - Databases)**

Readings & Tutorials:

* [Content Providers](http://developer.android.com/guide/topics/providers/content-providers.html) [Dev Guide]
* [Data Storage](http://developer.android.com/guide/topics/data/data-storage.html) (incl. subtopic) [Dev Guide]

Homework Out: Project: implementation

Homework In: development schedule, design meetings

**Week 10: Android**

Readings & Tutorials:

* [Security & Permissions](http://developer.android.com/guide/topics/security/security.html) [Dev Guide]
* [Location & Maps](http://developer.android.com/guide/topics/location/index.html) (incl. all subtopics) [Dev Guide]
* [Graphics](http://developer.android.com/guide/topics/graphics/index.html) (incl. all subtopics) [Dev Guide]
* [Media](http://developer.android.com/guide/topics/media/index.html) (incl. all subtopics) [Dev Guide]

Homework Out: NICU version 2 - persistent data

Homework In: NICU v1

**Week 11: 4/19 Prof. Terzis - Sensors, GPA full version**

Readings & Tutorials:

* [Development Guide](http://developer.android.com/guide/index.html) - Best Practices
* [Resources](http://developer.android.com/guide/topics/resources/index.html) (incl. all subtopics) [Dev Guide]

Homework Out: Project: finish implementation, prepare presentation

Homework In:

[Passover/Easter]

**Week 12: Mobile App Issues, Final Project Presentations**

Readings & Tutorials:

* *Effective UI* by Jonathan Anderson [(in MSEL on-line collection)](http://proquest.safaribooksonline.com.proxy1.library.jhu.edu/9781449380465): Chapter 9
* [Signing Apps](http://developer.android.com/guide/publishing/app-signing.html) [Dev Guide]
* [Versioning](http://developer.android.com/guide/publishing/versioning.html) [Dev Guide]
* [Publishing](http://developer.android.com/guide/publishing/preparing.html) [Dev Guide]
* [Android Market](http://developer.android.com/guide/publishing/publishing.html) [Dev Guide]

Homework Out: Project: revisions, publishing?, team evals

Homework In: project presentations

**Week 13: Societal Impacts**

Homework In: Final Project Packages, NICU v2, team evals, journals