

cs543 DASHBOARD: 2018/19 Term 1 (Sept-Dec 2018)

Updated: 2018.11.22a

| Wk | Sunday pm | Monday | Mon, pm | Wed | Thursday | Friday |
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| | Readings & Questions Due: Sundays 18:00 see 543 biblio | Class 13:00-16:00 FSC 2333 | Open Lab (suggested) FSC 2333 | | Open Lab (suggested) FSC 2333 | Deliverable Due: Fridays 10:00 (am) see Deliverables |
| W01 | 9-Sep | 10-Sep | 10-Sep | 12-Sep | 13-Sep | 14-Sep |
| | [Reading Question instructions] “Reading Questions” are due on date reading is listed. E.g., questions on Reading W02 are due Sun Sept 16, 18:00. | 1st day of classes (a) Lect: Course overview [pdf] (b) Lect: Approaches to Physical Interaction Design [pdf] (c) Demo: Living phone [video] (d) Lect: Haptic Sketching; levels [pdf] . <i>Note: Usually in W02</i> Student Do-Do List: [pdf] Assign 1 out - physical design quiz [.doc] | None in 1st week | | None in 1st week | Deliverable DUE: Assgn 1 - Physical Design quiz (handin) (handin setup TBA) |
| W02 | 16-Sep | 17-Sep | 17-Sep | 19-Sep | 20-Sep | 21-Sep |
| | Reading W02: 1. Lim et al, 2008. The anatomy of prototypes 2. Hopson 2009. Kinetic Design and Animation ref: Haptic Sketching rsrc | Class Instructor out of town; Bucci handling lab. [Project: [intro] [full assign] - deferred 1 week] Announcements: [n/a] Lab 1 out: [No-Tech Puppeteering] | Open Lab Work on: Lab 1, project ads | | Open Lab Work on: Lab 1, project ads | Deliverable Due: project ads (as twiki post on project ads page) [deferred 1 week] |
| W03 | 23-Sep | 24-Sep | 24-Sep | 26-Sep | 27-Sep | 28-Sep |
| | Reading W03: W03 reading details [rtf] 1. Igoe et al 2004. Physical Computing (Ch 8: PhID) 2. Hayward 2007 ref: Haptic Sketching rsrc | Class (a) Lect: Basic mechatronic elements [pdf] (b) Lab: Arduino intro [pdf] (c) Project intro (see W02) (d) work on Lab 1 and 2 Announcements: [] Lab 2 out: [Basic Arduino] | Open Lab Work on: Labs 1 and 2; Project ads | | Open Lab Work on: Labs 1 and 2 Project ads | Deliverable Due: Lab 1 - no-tech Puppeteering (wiki: blog post on labs page) Due: project ads (as twiki post on project ads page) Due: proj teams formed (as twiki post on project team forming page) N/A |
| W04 | 30-Sep | 1-Oct | 1-Oct | 3-Oct | 4-Oct | 5-Oct |
| | Reading W04: W04 reading details [rtf] Roberts 2010; Hook 2008 | Class (a) Lect: Communicating - Affect [pdf] (b) Lab: work on Lab 2, 3 Announcements: [] Lab 3 out: [Communicate something] | Open Lab Work on: Lab 2/3, project proposal | | Open Lab Work on: Lab 2/3, project proposal | Deliverable Due: Lab 2 [Basic Arduino] (wiki: blog post on labs page) Due: project proposal (email) |
| W05 | 7-Oct | 8-Oct | 8-Oct | 10-Oct | 11-Oct | 12-Oct |
| | Reading W05: W05 reading details [rtf] UMich tutorial on system modeling; Schneider 16 and/or Swindells 06a Due Mon Oct 8, 18:00 (holiday) | Thanksgiving - UBC Closed | Open Lab Work on: Lab 3, project | | Open Lab Work on: Lab 3, project | Deliverable Due: Lab 3 - communicate something (wiki: blog post on labs page) |
| W06 | 14-Oct | 15-Oct | 15-Oct | 17-Oct | 18-Oct | 19-Oct |

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| | <p>Reading: W06</p> <p>W06 reading details [rtf]</p> <p>Haans 2006, MacLean 2017 (chapter)</p> | <p>Class</p> <p>(a) Lect: Rendering 1 - rigid surfaces & static blocks [pdf]</p> <p>(b) Lect: Communicating - sharing control, user and system [pdf]</p> <p>(c) Proj: demos & prog mtgs 1/4</p> <p>work on Lab 3</p> <p>Announcements: []</p> | <p>Open Lab</p> <p>Work on: project</p> | | <p>Open Lab</p> <p>Work on: project</p> | <p>Deliverable</p> <p>None</p> |
| W07 | 21-Oct | 22-Oct | 22-Oct | 24-Oct | 25-Oct | 26-Oct |
| | <p>Reading W07:</p> <p>W07 reading details [rtf]</p> <p>Khatib online</p> | <p>Class</p> <p>(a) Lect: PID Control [pdf]</p> <p>(b) Twiddlerino intro</p> <p>(c) Lab: work on Lab 4</p> <p>Announcements: []</p> <p>Lab 4 out: Controlled actuation using PID [pdf] [full Materials]</p> | <p>Open Lab</p> <p>Work on: Lab 4, project</p> | | <p>Open Lab</p> <p>Work on: Lab 4, project.</p> | <p>Deliverable</p> <p>Due: project iteration 1 (wiki: proj blog posts + demo in W08)</p> |
| W08 | 28-Oct | 29-Oct | 29-Oct | 31-Oct | 1-Nov | 2-Nov |
| | <p>Reading W08:</p> <p>W08 reading details [rtf]</p> <p>Forsyth 2006, Losey 2018</p> | <p>Class</p> <p>(a) Lect: Rendering 2 - dynamic systems [pdf]</p> <p>(b) Proj: demos & prog mtgs 2/4</p> <p>Announcements: []</p> <p>Lab 5 out: Haptically engaging creation [pdf] [full Materials]</p> | <p>Open Lab</p> <p>Work on: Lab 4, project</p> | | <p>Open Lab</p> <p>Work on: Lab 4, project</p> | <p>Deliverable</p> <p>Due: Lab 4 - controlled actuation using PID (wiki: blog post on labs page)</p> |
| W09 | 4-Nov | 5-Nov | 5-Nov | 7-Nov | 8-Nov | 9-Nov |
| | <p>Reading W09:</p> <p>W09 reading details [rtf]</p> <p>Zilles 1995; Otaduy 2013</p> | <p>Class</p> <p>(a) Lect: Rendering 3 - textures & surface properties [pdf]</p> <p>(b) Lab: work on Lab 5</p> <p>Announcements: []</p> | <p>Open Lab</p> <p>Work on: Lab 5, project</p> | | <p>Open Lab</p> <p>Work on: Lab 5, project</p> | <p>Deliverable</p> <p>Due: Lab 5 - Haptically engaging creation (wiki: blog post on labs page)</p> <p>Proj: prog mtgs 3/4, by arrangement</p> |
| W10 | 11-Nov | 12-Nov | 12-Nov | 14-Nov | 15-Nov | 16-Nov |
| | <p>Reading W10:</p> <p>W10 reading details [rtf]</p> <p>Klatzky 2013; Choi 2013 optional: Jones 2009</p> | <p>Remembrance Day - UBC Closed</p> <p>Instructor traveling, Nov 13-17 (AsiaHaptics)</p> | <p>Open Lab</p> <p>Work on: project</p> | | <p>Open Lab</p> <p>Work on: project</p> | <p>Deliverable</p> <p>Due: project iteration 2 (wiki: proj blog posts + demo in W11)</p> |
| W11 | 18-Nov | 19-Nov | 19-Nov | 21-Nov | 22-Nov | 23-Nov |
| | <p>Reading W11:</p> <p>W11 reading details [rtf]</p> <p>Ernst 2004; Gray 2013; Hayward 2008.</p> | <p>Class</p> <p>(a) Lect: Human sensing & motor control [pdf]</p> <p>(b) Lect: Cross-modal interactions [pdf]</p> <p>Announcements: []</p> | <p>Open Lab</p> <p>Work on: project; finalize direction for iteration 3.</p> | | <p>Open Lab</p> <p>Work on: project</p> | <p>Deliverable</p> <p>None</p> |
| W12 | 25-Nov | 26-Nov | 26-Nov | 28-Nov | 29-Nov | 30-Nov |
| | <p>Reading W12:</p> <p>W12 reading details [rtf]</p> <p>Sarter 2013; plus Oram 2014 OR Pan 2014.</p> | <p>Class</p> <p>(a) Lect: Workload theory & multimodal interfaces [pdf]</p> <p>(b) Lect: Evaluating interfaces for workload [pdf] [papers]</p> <p>(c) Proj: prog mtgs 4/4</p> <p>Announcements: []</p> | <p>Open Lab</p> <p>Work on: project</p> | | <p>Open Lab</p> <p>Work on: project</p> | <p>Deliverable</p> <p>Last day of classes (Nov 30)</p> <p>Due: project iteration 3 (wiki: proj blog posts). Accepted late w/ no penalty until Sun 9 Dec, 18:00 (no extension)</p> |

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| W13 | 2-Dec | 3-Dec | 3-Dec | 5-Dec | 6-Dec | 7-Dec |
| | | | Exams start (Dec 4) | <i>Instructor traveling, Dec 4-10 (CHI PC mtg)</i> | | |
| W14 | 9-Dec | 10-Dec | 10-Dec | 12-Dec | 13-Dec | 14-Dec |
| | | | | Final project demos & presentations at SPIN mtg Tues Dec 11, 2:00 pm. DUE: proj pres slides Tues Dec 11, 08:00am (handin) | | |
| W15 | 16-Dec | 17-Dec | 17-Dec | 19-Dec | 20-Dec | 21-Dec |
| | | | | Exams end (Dec 19) | | |