

| HW<br>0906 | PC<br>0906 | HW2<br>0918 | HW<br>0927 | HW<br>1016 | PCa<br>1025 | PCb<br>1025 | HW<br>1030 | HW<br>1101 | HW<br>1120 | HW<br>1129 | Cumulative |
|------------|------------|-------------|------------|------------|-------------|-------------|------------|------------|------------|------------|------------|
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|    |   |  |  |   |  |   |   |   |   |   |   |   |
|----|---|--|--|---|--|---|---|---|---|---|---|---|
| 1  | Know and understand the art and science of interaction design, particularly its first principles and key metrics.   | “Bye” on 1204, so no column for that.          |  |   |  |   |   |   |   |   |   |   |
| 1a | Know and understand how interaction design relates to mental models.  |  |  |   |  |   |   |   |   |   | + |   |
| 1b | Know and understand the five key usability metrics.   |  |  | + |  |   | + | + |   |   |   | + |
| 1c | Know and understand interaction design guidelines, principles, and theories.  |  |  | + |  |   |   |   |   |   | / |   |
| 1d | Know and understand interaction styles.   |  |  |   |  |   | + |   |   |   | + | + |
| 1e | Know and understand affordances.  |  |  |   |  |   |   |   |   | / |   | / |
| 2  | Apply this knowledge by studying, comparing, and evaluating the user interfaces of actual systems.  | IOU feedback on direct manipulation resubmits. |  |   |  |   |   |   |   |   |   |   |
| 2a | Map real-world interaction design cases and/or situations to how mental models are expressed and communicated.  |  |  | + |  |   |   |   |   |   | + | + |
| 2b | Prioritize the five usability metrics for a given application.  |  |  | / |  |   |   |   |   |   |   | / |
| 2c | Effectively use usability metrics, interaction design guidelines, principles, and theories, interaction styles, and affordances to make appropriate, well-founded interaction design decisions. |  |  | / |  |   |   | + |   |   |   |   |
| 3  | Know the fundamentals behind implementing user interfaces with working knowledge of technologies such as HTML/CSS/JavaScript, Ajax, jQuery, and Bootstrap.                                      |  |  |   |  |   |   |   |   |   |   |   |
| 3a | Know and understand how user interfaces are constructed.  |  |  |   |  |   |   |   | + | + |   | + |
| 3b | Know and understand event-driven programming.   |  |  |   |  |   |   |   | + | + |   | + |
| 3c | Know and understand the model-view-controller (MVC) paradigm.   |  |  |   |  | + |   |   | + | + |   | + |
| 3d | Break down a high-level user action into a sequence of lower-level user or system events.   |  |  |   |  |   |   |   |   |   |   |   |
| 4  | Follow academic and technical best practices throughout the course.   |  |  |   |  |   |   |   |   |   |   |   |

| Totals |    |
|--------|----|
| +      | 10 |
|        | 6  |
| /      | 2  |
| -      | 0  |
| O      | 0  |
|        | B- |

| Outcomes  |  | HW<br>0906 | PC<br>0906 | HW2<br>0918 | HW<br>0927 | HW<br>1016 | PCa<br>1025 | PCb<br>1025 | HW<br>1030 | HW<br>1101 | HW<br>1120 | HW<br>1129 | Cumulative |
|-----------|--|------------|------------|-------------|------------|------------|-------------|-------------|------------|------------|------------|------------|------------|
| <b>4a</b> | Write syntactically correct, functional code.                            |            |            |             |            | /          |             |             |            |            |            |            |            |
| <b>4b</b> | Demonstrate proper separation of concerns, especially MVC.               |            |            |             |            | +          |             |             |            | +          | +          |            | +          |
| <b>4c</b> | Write code that is easily understood by programmers other than yourself. |            |            |             |            |            |             |             |            | +          | /          |            |            |
| <b>4d</b> | Use available resources and documentation to find required information.  | +          |            | +           | +          | +          |             |             |            | +          | +          |            | +          |
| <b>4e</b> | Use version control effectively.   | +          |            | +           | +          | +          |             |             | +          | +          |            | +          | +          |
| <b>4f</b> | Meet all designated deadlines.   | +          |            | +           | +          | +          |             |             | +          | +          | +          | +          | +          |