

## ENGR 310 Course Schedule

Spring 2008

| Date | Lecture                           | Project                 | Journals        |
|------|-----------------------------------|-------------------------|-----------------|
| 1/16 | Introduction                      |                         |                 |
| 1/18 | Design exercise                   |                         |                 |
| 1/21 | No class – MLK Day                |                         |                 |
| 1/23 | IDEO; Engineer of 2020            |                         |                 |
| 1/25 | Project kick-off; Journaling      |                         |                 |
| 1/28 | Design Process Model              | Project Selection       |                 |
| 1/30 | **                                |                         |                 |
| 2/1  | Needs Assessment                  |                         |                 |
| 2/4  | Objectives and Constraints        |                         |                 |
| 2/6  | **                                |                         |                 |
| 2/8  | Performance metrics               |                         |                 |
| 2/11 | Effective meetings; conflict mgmt | Problem Statement       | Journal check 1 |
| 2/13 | **                                |                         |                 |
| 2/15 | Functional Analysis               |                         |                 |
| 2/18 | No class – President’s Day        | Functional Analysis     |                 |
| 2/20 | **                                |                         |                 |
| 2/22 | Ideation                          |                         |                 |
| 2/25 | Ideation                          |                         |                 |
| 2/27 | **                                |                         |                 |
| 2/29 | Ideation                          |                         |                 |
| 3/3  | Controlled convergence            | Alternatives Evaluation | Journal check 2 |
| 3/5  | **                                |                         |                 |
| 3/7  | Teamwork Development, skills      |                         |                 |
| 3/10 | ----- Spring Break -----          |                         |                 |
| 3/12 |                                   |                         |                 |
| 3/14 |                                   |                         |                 |
| 3/17 | System architecture design        |                         |                 |
| 3/19 | **                                |                         |                 |
| 3/21 | No class – University Day         |                         |                 |
| 3/24 | Project risk analysis             | System Architecture     | Journal check 3 |
| 3/26 | **                                |                         |                 |
| 3/28 | Project Planning                  |                         |                 |
| 3/31 | Teamwork skills assessment        | Project Planning        |                 |
| 4/2  | **                                |                         |                 |
| 4/4  | Review                            |                         |                 |

\*\* Recitation Meeting with team advisor

|      |                            |                          |                 |
|------|----------------------------|--------------------------|-----------------|
| 4/7  | EXAM                       |                          |                 |
| 4/9  | **                         |                          |                 |
| 4/11 | Lifecycle Engineering      |                          |                 |
| 4/14 | Cost Analysis              |                          |                 |
| 4/16 | **                         | Detailed Design Review   | Journal check 4 |
| 4/18 | Failure Analysis           |                          |                 |
| 4/21 | Intellectual Property      |                          |                 |
| 4/23 | **                         |                          |                 |
| 4/25 | Poster Design              |                          |                 |
| 4/28 | Design Communication       |                          |                 |
| 4/30 |                            | Design Fair              |                 |
| 5/2  | Professional Ethics        |                          |                 |
| 5/5  |                            | Final Design Package due |                 |
| 5/9  | FINAL EXAM, 8:00-9:50 a.m. |                          | Journal check 5 |

\*\* Recitation Meeting with team advisor