**Assignment Calendar Fall 2016**

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| **Week** | **Lecture/Lab**  **Dates** | **Module** | **Reading** |
| 1 | 8/22 | Syllabus |  |
| 8/22 | Lab 1: Introduction, expectations, StrengthsFinder, photos | StrengthsFinder2.0 |
| 8/24 | Lecture 1: Dimensions and Measurements | F&R  Ch. 2 |
| 8/26 | Lecture 2: Pressure and Temperature | F&R  Ch. 3 |
| 2 | 8/29 | Lecture 3: Mass Balance Introduction | F&R  Ch 4.1-4.3 |
| 8/29 | Lab 2: Ingredient functionality, label deconstruction, team introductions |  |
| 8/31 | Lecture 3: Continued |  |
| 9/2 | Lecture 4: Complex Systems and Degree of Freedom Analysis | F&R  Ch. 4-4-4.5 |
| 3 | 9/5 | **Labor Day: No Class** |  |
| 9/7 | Lecture 4: Continued |  |
| 9/9 | Lecture 5: Linear Algebra for Mass Balances | F&R Ch. 10 and Supplements |
| 4 | 9/12 | Lecture 5: continued |  |
| 9/12 | Lab 3: StrengthsFinderDiscussions | StrengthsFinder2.0 |
| 9/14 | Exam 1 Review |  |
| 9/16 | **\*\*EXAM 1\*\*** | **\*\*EXAM 1\*\*** |
| 5 | 9/19 | Lecture 6: Chemical Reactions in Steady-State Biological Systems | F&R  Ch. 4.7-4.10 |
| 9/19 | Lab 4: Discuss Reverse Engineering Project and Linear Programming |  |
| 9/21 | Lecture 6: continued |  |
| 9/23 | Lecture 6: continued |  |
| 6 | 9/26 | Lecture 7: Ideal & Non-Ideal Gas Laws | F&R  Ch. 5 |
| 9/26 | Lab 5: Reverse Engineering Project  **Product Process Reviews** |  |
| 9/28 | Lecture 7: continued |  |
| 9/30 | Lecture 8: Phase Equilibria | F&R  Ch. 6 |
| 7 | 10/3 | Lecture 8: continued |  |
| 10/3 | Lab 6: Project 2  Experiment Design Demo  and Brainstorming Exercise |  |
| 10/5 | Lecture 9: Enthalpy and 1stLaw Energy Balances | F&R  Ch. 7 and 8 |
| 10/7 | Lecture 9: continued |  |
| 8 | 10/10 | **FALL BREAK: NO CLASS** |  |
| 10/12 | Lecture 10: T, P, H, U Relationships | Ch. 7 and Supplement |
| 10/14 | Lecture 10: continued |  |
| 9 | 10/17 | **\*\*\* EXAM 2\*\*\*** | **\*\*\* EXAM 2\*\*\*** |
| 10/17 | Lab 7: Market Research & Marketing (Evaluation of Brainstorming Ideas) |  |
| 10/19 | Lecture 11: Introduction to Entropy |  |
| 10/21 | Lecture 11: continued |  |
| 10 | 10/24 | Lecture 11: continued |  |
| 10/24 | Lab 8: Product Formulations and Preparing for Kitchen Labs |  |
| 10/26 | Lecture 12: 2nd Law Energy Balances |  |
| 10/28 | Lecture 12: Continued |  |
| 11 | 10/31 | Lab 09: Production Lab 1, section 1, 1:30-4:20pm  (Meet in Stone 229) |  |
|  | Lab 09: Production Lab 1, section 2, 4:20-7:20pm  (Meet in Stone 229) |  |
| 11/2 | Lecture 13: Combined Mass and Energy Balances | F&R  Ch. 8 |
| 11/4 | Lecture 13: Continued | Ch. 8.4 &  Supplement |
| 12 | 11/7 | Lab 10: Production Lab 2,  section 1, 1:30-4:20pm  (Meet in Stone 229) |  |
| 11/7 | Lab 10: Production Lab 2,  section 2, 4:30-7:20pm  (Meet in Stone 229) |  |
| 11/9 | **\*\*Exam 3\*\*\*** | **\*\*Exam 3\*\*\*** |
| 11/11 | Lecture 14: Psychrometrics | F&R  Ch. 9 |
| 13 | 11/14 | No Lecture |  |
| 11/14 | **Product Process Reviews**Lab 11: Evaluating Sensory Data |  |
| 11/16 | No Lecture |  |
| 11/18 | No Lecture |  |
| 14 | 11/21 | Lecture 14: Continued |  |
| 11/21 | Lab 12: Posters and Reports |  |
| 11/23 | **THANKSGIVING: NO CLASS** |  |
| 11/25 | **THANKSGIVING: NO CLASS** |  |
| 15 | 11/28 | Lab 13: Production Lab,  section 1, 1:30-4:20pm  (Meet in Stone 229) |  |
|  | Lab 13: Production Lab,  section 2, 4:30-7:20pm  (Meet in Stone 229) |  |
| 11/30 | Lecture 15: Enthalpies of Reaction | F&R  CH. 9 |
| 12/2 | Lecture 15: continued |  |
| 16 | 12/5 | Lecture 16: Combined Mass and Energy Balances with Chemical Reactions Lecture 16: continued |  |
| 12/5 | Lab 14: Poster Presentation |  |
| 12/7 | Lecture 15: continued |  |
| 12/9 | **Review for Final Exam**  **Final Lab Report Due** | |
|  | Friday 12/16 | **Final Exam**  3:30pm – 5:30pm  LYLE 1160 | |