

| Date                 | Lectures, Sections, & Assignments                                                                                                                                                                                                                                                                          | Readings                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <b>Week One</b>      | <b>TOPICS: THE RESEARCH QUESTION, STUDY DESIGNS</b>                                                                                                                                                                                                                                                        |                                                       |
| Mon 8/3<br>Mon 8/3   | LECTURES: "The Research Question" (Jacoby)<br>SECTION: Discussion of Assignment 1, part 1                                                                                                                                                                                                                  | DCR chapters 1, 2                                     |
| Wed 8/5<br>Wed 8/5   | LECTURES: "Observational Study Designs" (Bibbins-Domingo)<br>"Introduction to Randomized Blinded Trials" (Kanaya)<br>"Studies of Medical Tests" (Newman)<br>SECTION: Discussion of Assignment 1, part 2<br><br><u>ASSIGNMENT:</u> Assignment 1 due Aug. 6— e-mail to section leader by 5 pm                | DCR chapters 7, 8, 10<br>plus pick one: 11, 12, or 13 |
| <b>Week Two</b>      | <b>TOPICS: SUBJECTS &amp; VARIABLES, CAUSAL INFERENCE</b>                                                                                                                                                                                                                                                  |                                                       |
| Mon 8/10<br>Mon 8/10 | LECTURES: "Subjects & Variables" (Bauer)<br>SECTION: Discussion of Assignment 2, part 1                                                                                                                                                                                                                    | DCR chapters 3, 4                                     |
| Wed 8/12<br>Wed 8/12 | LECTURES: "Causal Inference" (Grady)<br>SECTION: Discussion of Assignment 2, part 2<br><br><u>ASSIGNMENT:</u> Assignment 2 due Aug. 13—e-mail to section leader by 5 pm                                                                                                                                    | DCR chapter 9                                         |
| <b>Week Three</b>    | <b>TOPICS: STATISTICS AND SAMPLE SIZE</b>                                                                                                                                                                                                                                                                  |                                                       |
| Mon 8/17<br>Mon 8/17 | LECTURES: "Sample Size and Power" (Cummings)<br>SECTION: Discussion of Assignment 3, part 1                                                                                                                                                                                                                | DCR chapters 5, 6                                     |
| Wed 8/19<br>Wed 8/19 | LECTURES: "Statistics for Life" (McCulloch)<br>SECTION: Discussion of Assignment 3, part 2<br><br><u>ASSIGNMENT:</u> Assignment 3 due Aug. 20—e-mail to section leader by 5 pm                                                                                                                             | Also: "Statistical Interpret. of Data"                |
| <b>Week Four</b>     | <b>TOPICS: QUESTIONNAIRES &amp; QUALITATIVE RESEARCH, ETHICAL CONSIDERATIONS</b>                                                                                                                                                                                                                           |                                                       |
| Mon 8/24<br>Mon 8/24 | LECTURES: Qualitative Research & Questionnaire Design" (Kuppermann)<br>SECTION: Discussion of remaining protocol sections                                                                                                                                                                                  | DCR chapters 15, 16                                   |
| Wed 8/26<br>Wed 8/26 | LECTURES: "Ethics in Research" (Grady & Chiong)<br>"Responsible Conduct of Research" (Grady)<br>"Data & Safety Monitoring" (Huang)<br>SECTION: Discussion of remaining protocol sections<br><br><u>ASSIGNMENT:</u> Final Protocols due by Aug. 27, by 5 pm—upload directly onto the on-line course website | DCR chapters 14, 17                                   |
| <b>Week Five</b>     | <b>TOPICS: FINAL PROTOCOL REVIEW</b>                                                                                                                                                                                                                                                                       |                                                       |
| Mon, 8/31            | SECTION: No regular section, but final protocol peer-review sessions with new faculty and student pairs                                                                                                                                                                                                    |                                                       |