2 Between, 1 Within Repeated Measures ANOVA

In this example, three groups of white students (high school seniors, college freshmen and sophomores, and college juniors and seniors) are exposed to three sensitivity treatments to measure their attitudes toward minorities:

Treatment 1 = Presentation

Treatment 2 = Book

Treatment 3 = Movie

|  |  |  |  |
| --- | --- | --- | --- |
|  | Treatment 1  Book | Treatment 2  Presentation | Treatment 3  Movie |
| HS Seniors (*n* = 9) |  |  |  |
| Block 1 | 20  18  21 | 22  21  20 | 22  23  21 |
| Block 2 | 18  16  19 | 18  19  19 | 22  21  24 |
| Block 3 | 18  15  19 | 21  22  20 | 22  24  20 |
| Frosh/Soph. (*n* = 12) |  |  |  |
| Block 1 | 18  18  17  17 | 18  18  17  20 | 19  21  18  20 |
| Block 2 | 17  16  18  17 | 19  19  17  21 | 23  24  22  23 |
| Block 3 | 17  18  18  18 | 20  18  17  21 | 20  22  21  23 |
| Jun./Sen. (*n* = 9) |  |  |  |
| Block 1 | 20  18  18 | 20  19  19 | 22  21  24 |
| Block 2 | 17  19  18 | 16  22  19 | 19  23  23 |
| Block 3 | 18  17  19 | 21  20  23 | 20  20  23 |

To balance for treatment sequence, the treatments are varied across three blocks:

Block 1: Movie, Book, Presentation

Block 2: Book, Presentation, Movie

Block 3: Presentation, Movie, Book