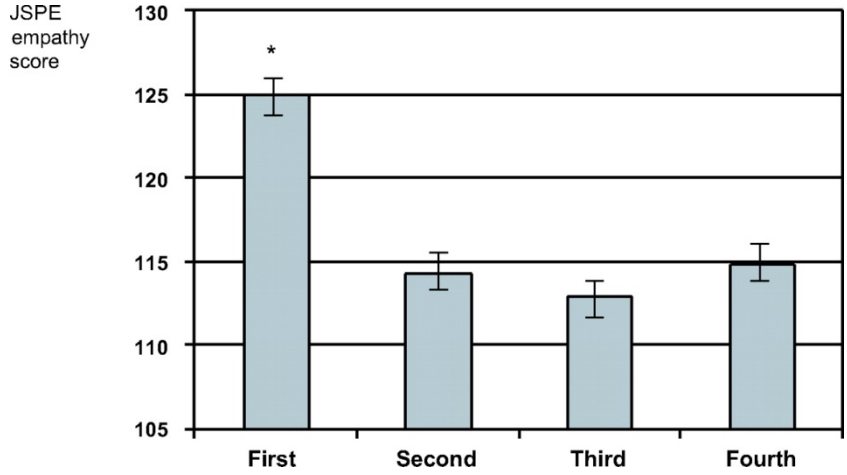
EXST7015 **Daily Design 23**

Carefully read the description of the experiment below. Be prepared to answer the questions that follow the design description as a class quiz.

Empathy in the health care setting is the ability to understand a patient's experiences and feelings and the capability to communicate this understanding. Empathy plays an important role in the dentist-patient relationship. We examined the psychometric properties of a measure of empathy applied to the dental school setting and compared levels of empathy in dental students across their four years of training. One hundred and thirty students completed a survey including the Jefferson Scale of Physician Empathy (JSPE).



The study sample consisted of 130 dental students (eighty-five men, forty-five women) at the University of Washington School of Dentistry. This represents 61 percent of the total student body at the time the survey was administered, a response rate considered "good" for mail survey research. Of the 130 respondents, 43 were first-year dental class students, 29 were second-year class, 27 were third-year, and 31 were in the fourth-year dental class.

The Jefferson Scale of Physician Empathy-Health Professionals Version (JSPE-HP) was used to measure empathy in our subjects. The JSPE includes twenty items answered on a 7-point Likert scale (1=strongly disagree through 7=strongly agree). We were interested in comparing empathy for the years of training for the dental students. The score on the JSPE questionnaire was our variable of interest.

Answer choices:	**(A) JSPE-HP score**	**(B) student**	**(C) Likert scale**
	(D) class year	**(E) survey**	**(F) total student body**

Name _____ Quiz Number ____ Date _____ / _____ / 2012_

Circle the appropriate letter for each question.

1) What is the experimental unit for this experiment? A B C D E F

2) What is the sampling unit for this experiment? A B C D E F

3) What is the dependent variable for this experiment? A B C D E F

4) What is the treatment variable for this experiment? A B C D E F

5) If the design is RBD, what are the blocks? A B C D E F NA

6) Does it seem more likely that the treatments are fixed or random? (A) fixed (B) random

7) What is the treatment arrangement for this experiment? (A) single factor (B) factorial (C) nested

8) What is the experimental design? (A) CRD (B) RBD (C) LSD (D) Split-plot (E) Repeated Measures

9) The treatment degrees of freedom are _____ .

10) The degrees of freedom for the error used for testing treatments are _____ .