

Course ID	Course Description	Course Objectives
<p>ESCD 7750 Advanced Regression</p>	<p>This is a course in applied biostatistics. It provides an accessible introduction to multivariate methods, emphasizing their proper use and interpretation. We feel strongly that this can only be accomplished by illustrating the techniques using a variety of real datasets. We hope that this course will be helpful to health services researchers who need to be familiar with these methods. We also include few independent advanced topics which are not frequently covered in a course such as path analysis, forecasting, and etc.</p>	<ol style="list-style-type: none"> 1. Perform appropriate predictor selection 2. Interpret multivariate linear regression model to predict continuous outcomes 3. Interpret multivariate logistic regression model to predict categorical outcomes 4. Interpret multivariate survival analysis to predict time-event outcomes 5. Classify nonparametric analysis as an alternative way to analyze datasets 6. Differentiate several techniques (meta-analysis, path analysis, forecasting)