L1: simple regression, one-way ANOVA, basic definition of t, F, R2, R2adj

L2: one-way ANOVA, pairwise comparisons, two-way ANOVA

L3: ANCOVA, parallel line test

L4: matrix for simple regression, ANOVA and ANCOVA

L5: t test, F test, confidence interval, prediction interval

L6: pure error variance, test for lack of fit, hat values(leverage), standardized residuals, externally studentized residuals, influential point (Cook's distance)

L7: check of normality, Heteroscedasticity (Nonconstant Error Variance), nonlinearity (partial residual plots), Box-Cox transformation, polynomial regression

L8: model selection (stepwise, criterion-based: R2adj, Mallow’s 𝐶p, AIC, BIC), collinearity (VIF)

L9: MLE: Wald test, likelihood ratio test, score test, asymptotic properties

L10: logistic regression: odds ratio, Wald CI, likelihood CI

L11: logistic regression: deviance, compare two models, AIC, risk diff, relative risk, odds ratio

L12: Poisson regression (counts, rates), dispersion parameter