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| **Course Title: DBM112 Statistics**  **Year and Semester:** Year 1, Semester 1 |
| **Course Description**  This is an introductory course in statistics. Students are introduced to the fundamental concepts involved in using sample data to make inferences about populations.  Included are the study of measures of central tendency and dispersion, finite probability, probability distributions, statistical inferences from large and small samples, linear regression, and correlation |
| **Prerequisite(s) or co-requisite(s)**  None |
| **Method of Instruction**   * Lecture * Laboratory |
| **Content Outline by Topic**   * Introduction to Statistics * Descriptive Statistics * Simple Linear Regression and Correlation * Normal Probability Distribution * Fundamentals of Probability * Inferential Statistics * Demonstrate competency in the use of technology |
| **Actual Contact Hours/Week**  4 hours a week for 14 weeks |
| **Methods and Frequency of Evaluation of Student Performance**  Workshops (minimum 5) 10%  Assignments (minimum 2) 4%  Quizzes (minimum 10) 3%  Test(s) 3%  Final Exam 80% |
| **Resources to be Purchased/Provided by Students:** None |
| **Textbook Requirement:**  Introduction to Statistics and Data Analysis: With Exercises, Solutions and Applications in R  [Christian Heumann](https://www.google.cm/search?hl=fr&tbo=p&tbm=bks&q=inauthor:"Christian+Heumann"&source=gbs_metadata_r&cad=8), [Michael Schomaker](https://www.google.cm/search?hl=fr&tbo=p&tbm=bks&q=inauthor:"Michael+Schomaker"&source=gbs_metadata_r&cad=8), [Shalabh](https://www.google.cm/search?hl=fr&tbo=p&tbm=bks&q=inauthor:"Shalabh"&source=gbs_metadata_r&cad=8)  Springer, 2017  ISBN: 9783319461625  Introduction to Statistics and Data Analysis  [Roxy Peck](https://www.google.cm/search?hl=fr&tbo=p&tbm=bks&q=inauthor:"Roxy+Peck"&source=gbs_metadata_r&cad=7), [Chris Olsen](https://www.google.cm/search?hl=fr&tbo=p&tbm=bks&q=inauthor:"Chris+Olsen"&source=gbs_metadata_r&cad=7), [Jay L. Devore](https://www.google.cm/search?hl=fr&tbo=p&tbm=bks&q=inauthor:"Jay+L.+Devore"&source=gbs_metadata_r&cad=7)  Cengage Learning, 2015  ISBN: 9781305445963 |