**SYSM6326 - Systems Lifecycle Cost Analysis**

**SYSM 6326** Systems Lifecycle Cost Analysis (3 semester credit hours) This course will provide an understanding of system lifecycle cost analysis concepts (also known as systems affordability) and the lifecycle costing process. The course will examine the importance of using these concepts when attempting to make the best possible engineering and business decisions throughout a system's lifecycle. The concepts will include special emphasis on the analysis and evaluation of alternatives by collectively weighing costs, risks and opportunities, performance, weight and other benefit/risk parameters. Topics will include total ownership cost, various estimating methods and techniques (including sensitivity and some risk analysis), cost analysis processes, system trade studies, and system cost effectiveness, to name a few. Practical skills are developed through the use of various case studies, and a significant group project, maturing from "concept" into "operations and support" throughout the semester. Prerequisite: **SYSM 6301**. (3-0) Y