DATA ANALYTICS (DAT)

DAT-340 BUSINESS INTELLIGENCE SOFTWARE (3 Credits)
This course provides an introduction into the effective use of business intelligence software and engages the student with agile approaches to data warehousing, the intelligence life cycle and architecture. Students will analyze and present the case for the use of business intelligence from an ethical and entrepreneurial point of view.
Prerequisite: BUS-114

DAT-342 SPREADSHEET & DATABASE ANALYSIS (3 Credits)
This course provides students with the fundamental knowledge required to effectively handle data, utilize spreadsheet and database modeling and apply computational analysis to support business decision making. Students will utilize common software pacakages, such as Excel and Access, to produce actionable business intelligence using the relevant statistical techniques.
Prerequisite: Take BUS-211 and MAT-122 or MAT-131

DAT-344 INTRO TO DATA MINING (3 Credits)
This course provides students with the skills necessary to effectively mine numeric and textual data, to discover their patterns, through an introduction to programming languages to cluster their analysis of such findings and to produce a data mining project that addresses a modern business context.
Prerequisite: Take BUS-211, CSC-131 and MAT-122 or MAT-131

DAT-380 INTERNSHIP (1-6 Credits)
This course is aimed at practical work experience in data analytics. Students will have opportunities to apply classroom knowledge to business world situations. Students will acquire and document professional field experience and will receive 1 credit hour for every 40 hours of verified work.
Prerequisite: Junior or Senior status required

DAT-381 DATA ANALYTICS FIELD EXPERIENCE (1-6 Credits)
This course is aimed at practical work experience in data analytics. Students will have opportunities to apply classroom knowledge to business world situations. Students will acquire and document professional field experience and will receive 1 credit hour for every 40 hours of verified work.
Prerequisite: Junior or Senior status required

DAT-440 PROGRAMMING FOR BUSINESS (4 Credits)
This course provides students with the skills necessary to develop reasonable solutions to business problems through the application of commonly used business programming languages and how they inform database design and applications.
Prerequisite: BUS-114 and DAT-344

DAT-444 STRATEGIC DATA MODELING (3 Credits)
This course equips students to apply analytical tools to build data models using the relevant statistical software in order to produce strategic business inelligence. Students will utilize standard statistical findings that improve decision-making that account for incentive structures which lead to outcomes for customers and businesses that are mutually beneficial.
Prerequisite: DAT-342

DAT-460 EMERGING TRENDS IN DATA ANALYTICS (3 Credits)
This course focuses on emerging trends in business data analytics and visualization. Students will be introduced to recent developments in the field of data analysis and explore industry impacts.
Prerequisite: DAT-342

DAT-480 ADVANCED TOPICS (1-6 Credits)
Prerequisite: None

DAT-490 INDEPENDENT STUDY (1-6 Credits)
Prerequisite: None