BUSINESS ANALYTICS (BAN)

**BAN 5100 Professional Development in Business Analytics**
**Prerequisites:** Admission to the MS in Business Analytics program or consent of director of MS in Business Analytics.
**Description:** Career and professional development of MS in Business Analytics students. A blend of guest speakers, projects, and exercises used to better prepare students for advanced business analytics careers.
**Credit hours:** 1-6
**Contact hours:** Other: 1
**Levels:** Graduate
**Schedule types:** Independent Study
**Department/School:** Marketing

**BAN 5400 Practicum in Business Analytics**
**Prerequisites:** Consent of director of MS in Business Analytics and satisfactory completion of six hours of BAN 5000- or MKTG 5000-level courses.
**Description:** Professionally supervised experience in business analytics projects for which the student assumes a degree of professional responsibility. Activities approved in advance by the instructor and must reflect graduate level analysis. May consist of full or part-time business analytics experience, on-campus or in industry, or both, either individually or as a responsible group member. Periodic reports, both oral and written, required as specified by the instructor.
**Credit hours:** 1-3
**Contact hours:** Lecture: 1
**Levels:** Graduate
**Schedule types:** Lecture
**Department/School:** Marketing

**BAN 5511 Web Analytics and Digital Marketing**
**Prerequisites:** Admission to MS in Business Analytics or consent of director of MS in Business Analytics or consent by instructor.
**Description:** Learn how to use web analytics tools and techniques to improve digital marketing.
**Credit hours:** 1
**Contact hours:** Lecture: 1
**Levels:** Graduate
**Schedule types:** Lecture
**Department/School:** Marketing

**BAN 5521 GIS Applications in Marketing Analytics**
**Prerequisites:** Admission to MS in Business Analytics or consent of director of MS in Business Analytics or consent by instructor.
**Description:** Learn how to use geographical information systems (GIS) as a methodological tool and analyze spatial data to make better marketing decisions.
**Credit hours:** 1
**Contact hours:** Lecture: 1
**Levels:** Graduate
**Schedule types:** Lecture
**Department/School:** Marketing

**BAN 5530 Consulting in Marketing Analytics**
**Prerequisites:** Admission in MS in Business Analytics or consent of director of MS in Business Analytics or consent by instructor.
**Description:** Learn how analytics consultants must communicate with clients to establish relationships, build trust, propose solutions, handle objections and otherwise effectively manage the relationship aspect of the engagement.
**Credit hours:** 1-3
**Contact hours:** Lecture: 1
**Levels:** Graduate
**Schedule types:** Lecture
**Department/School:** Marketing

**BAN 5541 Using R in Marketing Analytics**
**Prerequisites:** Admission in MS in Business Analytics or consent of director of MS in Business Analytics or consent by instructor.
**Description:** Learn how to use the R computing environment (and language) for analytics applications. The focus of the course will be on the usage of R and various R packages for analytics applications and not the theory or discussion behind various analytics techniques.
**Credit hours:** 1
**Contact hours:** Lecture: 1
**Levels:** Graduate
**Schedule types:** Lecture
**Department/School:** Marketing

**BAN 5551 Optimization Applications in Marketing Analytics**
**Prerequisites:** Admission in MS in Business Analytics or consent of director of MS in Business Analytics or consent by instructor.
**Description:** This course provides an introduction to practical applications of mathematical programming/operations research using SAS/OR. May not be used for degree credit with MKTG 5983 and MKTG 5733.
**Credit hours:** 1
**Contact hours:** Lecture: 1
**Levels:** Graduate
**Schedule types:** Lecture
**Department/School:** Marketing

**BAN 5733 Descriptive Business Analytics**
**Prerequisites:** Consent of director of MS in Business Analytics or by instructor.
**Description:** Learn how to describe and analyze business data using visualization and statistical tools. Topic coverage will include different types of graphs and plots, cross-tabs, variable associations, regression, ANOVA and other related models. An overview of basic probability concepts and statistical sampling techniques will also be provided. This course will primarily use SAS® Analytics platform to analyze data. Students may not take both MKTG 5733 or MKTG 5983 and BAN 5733 for degree credit.
**Credit hours:** 3
**Contact hours:** Lecture: 2 Lab: 2
**Levels:** Graduate
**Schedule types:** Lab, Lecture, Combined lecture and lab
**Department/School:** Marketing
BAN 5743 Predictive Business Analytics  
Prerequisites: BAN 5733 or consent by instructor.  
Description: Learn how to use predictive analytic tools such as logistic regression, neural networks, decision trees and other classification and prediction models to generate deeper business insights and to improve business decision making. This course will primarily use SAS® Analytics platform to analyze data. Students may not take both MKTG 5963 or MKTG 5743 and BAN 5743 for degree credit.  
Credit hours: 3  
Contact hours: Lecture: 2 Lab: 2  
Levels: Graduate  
Schedule types: Lab, Lecture, Combined lecture and lab  
Department/School: Marketing

BAN 5753 Advanced Business Analytics  
Prerequisites: BAN 5743 or consent by instructor.  
Description: Learn how to use advanced modeling techniques such as Self Organizing Maps (SOM) and Kohonen Networks, two-stage models, survival models, credit scoring models, time series forecasting models, advanced text analytics etc. to improve business decision making. This course will primarily use SAS® Analytics platform to analyze data. Students may not take both MKTG 5883 and BAN 5753 for degree credit.  
Credit hours: 3  
Contact hours: Lecture: 2 Lab: 2  
Levels: Graduate  
Schedule types: Lab, Lecture, Combined lecture and lab  
Department/School: Marketing

BAN 5763 Advanced Marketing Research Analytics  
Prerequisites: BAN 5753 or consent by instructor.  
Description: Learn how to properly use various multivariate data analysis techniques including multiple regression, MANOVA, Discriminant analysis, Clustering, MDS and Conjoint Analysis. Students may not take both MKTG 6413 and BAN 5763 for degree credit.  
Credit hours: 3  
Contact hours: Lecture: 2 Lab: 2  
Levels: Graduate  
Schedule types: Lab, Lecture, Combined lecture and lab  
Department/School: Marketing

BAN 5900 Advanced Practicum in Business Analytics  
Prerequisites: Consent of director of MS in Business Analytics and satisfactory completion of nine hours of BAN 5000- or MKTG 5000-level courses.  
Description: Professionally supervised experience in advanced business analytics projects for which the student assumes a degree of professional responsibility. Activities approved in advance by the instructor and must reflect advanced graduate level analysis. May consist of full or part-time advanced business analytics experience, on-campus or in industry, or both, either individually or as a responsible group member. Periodic reports, both oral and written, required as specified by the instructor.  
Credit hours: 1-6  
Contact hours: Other: 1  
Levels: Graduate  
Schedule types: Independent Study  
Department/School: Marketing