Typical FT MSBAN Plan of Study (37-40 Hours) 2017

- **Boot Camp 1** (5-days of SAS programming and 3-4 days of group activities, soft skill building, other trainings) – before Fall semester Year 1

- **Special training** : R-programming (mid-semester), Research and Business communication (all semester)

- **Fall Semester (Aug. - Dec.), Year 1, 10 hours**
  - Graduate Statistics I, 3 hours
  - Descriptive Business Analytics (Tools: SAS, R, Tableau and JMP), 3 hours
  - Advanced Database Management (Tools: SQL), 3 hours
  - Soft skills (Professional development), 1 hour
  - Visualization and Descriptive Analytics Project

- **Spring (Jan.- May), Year 1, 10 hours**
  - Special training : Research communication (all semester)
  - Special training : Data visualization using SAS VA/VS
    - Graduate Statistics II, 3 hours
    - Predictive Business Analytics (Tools: SAS, R), 3 hours
    - Advanced Programming (Tools: SAS, Python), 3 hours
    - Soft Skills (Consulting in Analytics), 1 hour
    - Predictive Analytics project
  - Boot Camp 2 (5 days of Big Data and Data Science) – end of Spring semester Year 1

**Summer, Year 1 (Internship – 2 credit hours)**

- Web page: [http://analytics.okstate.edu/msba/](http://analytics.okstate.edu/msba/)

**Fall (Aug. – Dec.), Year 2, 11-13 hours**

- **Special training** : Time Series, Strategic Marketing Analytics, Research communication
  - Advanced Business Analytics (Tools: SAS, R, Python, Big data tools), 3 hours
  - Mathematical Programming and Simulation (Tools: SAS, MATLAB), 3 hours
  - Customer Lifetime Value Models in Analytics, 1 hour
  - Soft skills (External Activities: Toastmasters)
  - Electives: Time Series, Managerial Accounting, Web analytics, GIS applications in analytics and others
  - Advanced Analytics Project (SAS Symposium, INFORMS Competition, Data Analytics Hackathon)

- **Spring (Jan. – May.), Year 2, 6-9 hours**
  - Special training : Bayesian Network Analysis, Multilevel Models, Machine Learning via Google TensorFlow and SAS Viya
    - Advanced Marketing Research Analytics (Tools: SAS, R, Python), 3 hours
    - Electives: Categorical Data Analysis, Big Data Tools and Technologies, Business Finance, Marketing optimization and others
  - Soft skills (External Activities: Conference Presentations)
  - Advanced Analytics Project (SAS Shootout, Kaggle Competition)

**Spring, Year 2 (Advanced Internship or co-op: 1 Credit hour)**

**Summer, Year 2, Graduation and Placement**

Date: Aug. 2017