

## Proposal for

## Masters of Science Business Analytics

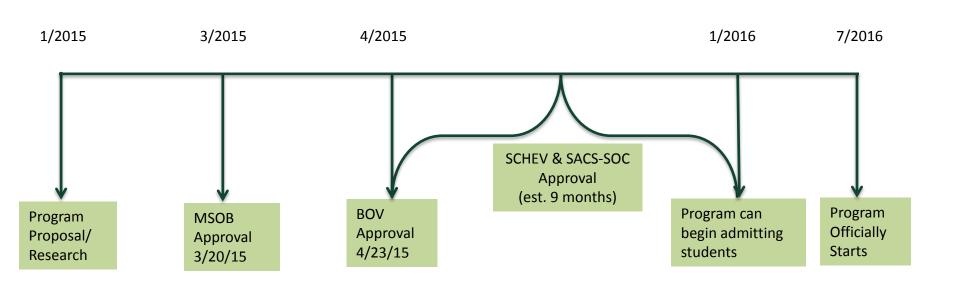
**April 2015** 





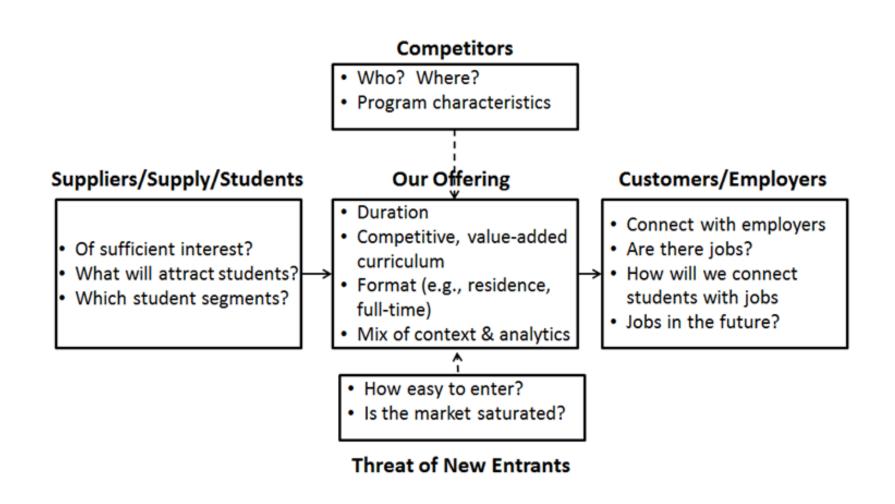
#### Time Line

### Launch Plan for Master of Science in Business Analytics





## Strategic Approach



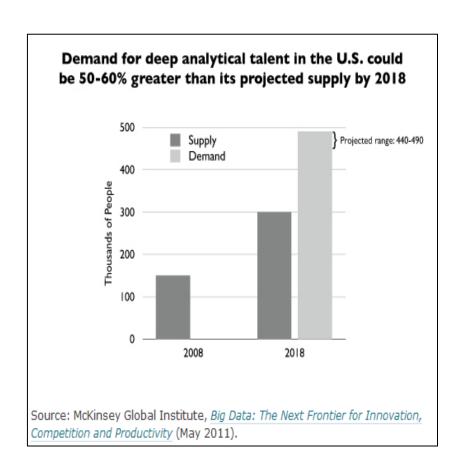


## Opportunity

Big Data is one of the most hyper-growth niches in a century.

By 2018 there will be a shortage of 1.5 million managers and analysts with the know-how to use big data to make effective decisions.

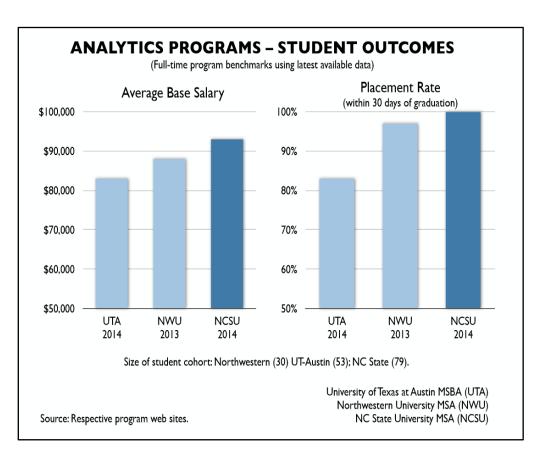
The growth rate in the business analytics hires is up 67% over the past year and 136% over the past three years





## Opportunity

#### Currently, growing but still underserved market



Source: NC State Master in Science Analytics: http://analytics.ncsu.edu/?page\_id=4184

#### The NCSU Experience

#### **Recruitment:**

- 2014: 800 applications for 100 spots
- Increasing capacity to 160 students/year
- New 26,000 ft<sup>2</sup> building

#### Placement:

- High starting salaries: near \$100K
- High placement rates: 100%



# Recruitment: Target Students

## Current W&M Undergrads

- Opportunity for some students to graduate early and get a Masters Degree in year 4 (3+1 scenario)
- A recent survey indicated that we can expect up to 26 students a year from our undergraduates (4+1 scenario)

Recent Graduates from other schools

Current Master students

Joint Degree (MBA/MAcc/others)

Military Personnel
International Students



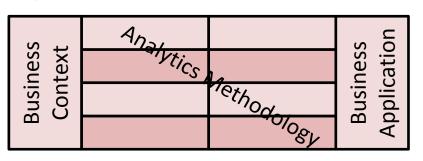
# Our Offering: Strategy

### **Best Practices\*:**

- Short, intensive programs (avg. 30 credits)
- Deep dive / cutting edge curriculums
- Data science requires extracting knowledge from data and requires contextual and analytical expertise

## Our design follows that strategy:

- Business context
- Deep dive analytics
- Practical business application





## Our Offering: Curriculum Structure

Pre-requisites (offered on-line)	Fall (15 credits)		Winter Break	Spring (15 credits)		
Probability* Statistics* Linear algebra* R Programing* Python Programming* Foundations of Business**  Not required for students who have previously completed coursework in topic or have passed a competency exam  Required for non-business majors	Competing through Business Analytics (3 credits) 2 weeks	Optimization & Algorithms 3 credits, 13 weeks  Intermediate Probability and Statistics 3 credits, 13 weeks  Machine Learning 1 3 credits, 13 weeks  Database Management 3 credits, 13 weeks	Analytics Internship* *optional	,	Data Visualization 1.5 credits, 6.5 weeks ning 2 reeks gence – Neural netic Algorithms	Capstone Project (3 credits) 2.5 weeks