

# BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: CONCENTRATION IN BUSINESS ANALYTICS ROADMAP – QUANTITATIVE REASONING CATEGORY 1/2

120 Total Units Required

Minimum Number of Units in the Major: 69

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult your Degree Planner (<https://registrar.sfsu.edu/degreeplanner/>) and an advisor for further guidance.

To avoid taking additional units, it is recommended that you meet the SF State Studies (AERM, GP, ESCA, SJ) requirements within your GE or major.

Course	Title	Units
<b>First Semester</b>		
ECON 101	Introduction to Microeconomic Analysis (Major Prerequisite, GE 4)	3
Select One (Major Prerequisite, GE 2): <sup>1</sup>		3
DS 110	Calculus with Business Applications	
MATH 110	Business Calculus	
GE Area 1A: English Composition <sup>2</sup>		3
GE Area 1: English Communication		3
GE Area 3: Arts and Humanities		3
<b>Units</b>		<b>15</b>
<b>Second Semester</b>		
ECON 102	Introduction to Macroeconomic Analysis (Major Core, GE 4)	3
ISYS 263	Introduction to Information Systems (Major Prerequisite, GE 4, GP)	3
GE Area 1: English Communication		3
GE Area 5: Physical and Biological Sciences <sup>3</sup>		3-4
SF State Studies or University Elective		3
<b>Units</b>		<b>15-16</b>
<b>Third Semester</b>		
ACCT 100	Introduction to Financial Accounting (Major Core)	3
Select One (Major Core):		3
DS/ECON 212	Business Statistics	

MATH 124	Elementary Statistics (GE 2)	
GE Area 4: Social and Behavioral Sciences with USH		3
GE Area 5: Physical and Biological Sciences <sup>3</sup>		3-4
SF State Studies or University Elective		3
<b>Units</b>		<b>15-16</b>
<b>Fourth Semester</b>		
ACCT 101	Introduction to Managerial Accounting (Major Core)	3
GE Area 3: Arts and Humanities		3
GE Area 6: Ethnic Studies ( <a href="https://bulletin.sfsu.edu/undergraduate-education/general-education/areasix/">https://bulletin.sfsu.edu/undergraduate-education/general-education/areasix/</a> )		3
U.S. and California Government ( <a href="https://bulletin.sfsu.edu/undergraduate-education/american-institutions/#usg">https://bulletin.sfsu.edu/undergraduate-education/american-institutions/#usg</a> )		3
SF State Studies or University Elective		3
<b>Units</b>		<b>15</b>
<b>Fifth Semester</b>		
Select One (Major Concentration):		3
DS 312	Data Analysis with Computer Applications	
ECON 312	Introduction to Econometrics	
DS 412	Operations Management (Major Core)	3
ISYS 363	Information Systems for Management (Major Core)	3
MKTG 431	Principles of Marketing (Major Core)	3
GE Area 3UD: Upper-Division Arts or Humanities		3
<b>Units</b>		<b>15</b>
<b>Sixth Semester</b>		
Select One (Major Core):		3
BUS 300GW	Business Communication for Professionals - GWAR	
DS 660GW	Communications for Business Analytics - GWAR	
FIN 350	Business Finance (Major Core)	3
ISYS 412	Application Development for Data Analytics (Major Concentration)	3
ISYS 464	Managing Enterprise Data (Major Concentration)	3

MGMT 405	Introduction to Management and Organizational Behavior (Major Core)	3
<b>Units</b>		<b>15</b>

A full list of courses that can be used to fulfill this requirement can be found in the Degree Requirements. (<https://bulletin.sfsu.edu/colleges/business/decision-sciences/bs-business-administration-concentration-business-analytics/#degreerequirementstext>)

**Seventh Semester**

Select One (Major Concentration):		3
DS 601	Applied Management Science	
ECON 618	Economic Inference: Methods and Applications	
IBUS 330	International Business and Multicultural Relations (Major Core, GE 4UD, GP)	3
ISYS 650	Business Intelligence (Major Concentration)	3
GE Area 5UD or 2UD: Upper-Division Sciences or Upper-Division Mathematical Concepts		3
SF State Studies or University Elective		3
<b>Units</b>		<b>15</b>

**Eighth Semester**

DS 612	Data Mining with Business Applications (Major Concentration)	3
BUS 682	Seminar on Business and Society (Major Core)	3
BUS 690	Seminar in Business Policy and Strategic Management (Major Core)	3
Major Elective – Take One <sup>4</sup>		3
SF State Studies or University Elective		3
<b>Units</b>		<b>15</b>
<b>Total Units</b>		<b>120-122</b>

<sup>1</sup> Students should use their Pathway/Category (<https://gatorsmartstart.sfsu.edu/pathways/>) to determine the appropriate GE 2 course option. For directions on how to view your Pathway/Category, visit how to find your pathway (<https://gatorsmartstart.sfsu.edu/howtofindyourpathways/>). Questions? Contact Gator Smart Start. (<https://gatorsmartstart.sfsu.edu/>)

<sup>2</sup> Students should use their Pathway/Category (<https://gatorsmartstart.sfsu.edu/pathways/>) to determine the appropriate GE 1A course option. For directions on how to view your Pathway/Category, visit how to find your pathway (<https://gatorsmartstart.sfsu.edu/howtofindyourpathways/>). Questions? Contact Gator Smart Start. (<https://gatorsmartstart.sfsu.edu/>)

<sup>3</sup> Consider taking a class combined with a laboratory or a separate lab to fulfill 5C if not already satisfied.

<sup>4</sup> Major Elective (3 units)