

# BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: CONCENTRATION IN BUSINESS ANALYTICS – BUSINESS ADMINISTRATION ASSOCIATE DEGREE FOR TRANSFER (ADT) WITH 15 LOWER-DIVISION UNITS (2021) ROADMAP

This is a sample pathway for students who transfer to San Francisco State University in the current Bulletin year with an AS-T in Business Administration (VERSION 2.0, established Spring 2021). 15 units in the major [ACCT 100/ACCT 101, DS 212, ECON 101/ECON 102] and all lower-division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (<http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students/>).**

## To Do at SF State:

Enough total units to reach 120 minimum for graduation; 30 units minimum at the upper division level; to include the following:

### University-Wide Requirements: 9-15 units

- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not met pre-transfer.
- Upper-Division GE Areas B, C, and D (9 units): Courses required for the major may double-count if approved for UD GE.
- Students entering the major with the AS-T in Business Administration with a concentration in Decision Sciences are not required to fulfill SF State Studies requirements.

### BS in Business Administration: Concentration in Business Analytics major: 48-54 units

ACCT 100/ACCT 101, DS 212, ECON 101/ECON 102 met in transfer.

- Prerequisites (0-6 units): DS 110 or MATH 110 and ISYS 263 if not met in transfer.
- Upper-division core courses for Business majors (27 units)
- Concentration (21 units)

### University Electives: 0 or more units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State - some courses may meet more than one requirement, e.g. in both UD GE and in the major.

Course	Title	Units
<b>First Semester</b>		
Select One (Major Prerequisite, B4):		3
DS 110	Calculus with Business Applications	
MATH 110	Business Calculus	
Select One (Major Concentration):		3
DS 312	Data Analysis with Computer Applications	
ECON 312	Introduction to Econometrics	
ISYS 263	Introduction to Information Systems (Major Prerequisite, D1, GP)	3
MGMT 405	Introduction to Management and Organizational Behavior (Major Core)	3
MKTG 431	Principles of Marketing (Major Core)	3
		<b>Units</b>
		<b>15</b>
<b>Second Semester</b>		
DS 412	Operations Management (Major Core)	3
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)	3
ISYS 363	Information Systems for Management (Major Core)	3
Select One (UD-C, USH, USG/CSLG):		3
HIST 470	The U.S. Constitution to 1896 (AERM, SJ)	
HIST 471	The U.S. Constitution Since 1896 (AERM, SJ)	
		<b>Units</b>
		<b>15</b>
<b>Third Semester</b>		
Select One (Major Core):		3
BUS 300GW	Business Communication for Professionals - GWAR	

DS 660GW	Communications for Business Analytics - GVAR	
DS 612	Data Mining with Business Applications (Major Concentration)	3
ISYS 412	Application Development for Data Analytics (Major Concentration)	3
FIN 350	Business Finance (Major Core)	3
GE Area UD-B: Upper-Division Physical and/or Life Sciences		3
<b>Units</b>		<b>15</b>
<b>Fourth Semester</b>		
BUS 682	Seminar on Business and Society (Major Core)	3
BUS 690	Seminar in Business Policy and Strategic Management (Major Core)	3
ISYS 464	Managing Enterprise Data (Major Concentration)	3
ISYS 650	Business Intelligence (Major Concentration)	3
Concentration Elective		3
<b>Units</b>		<b>15</b>
<b>Total Units</b>		<b>60</b>

ISYS 569 Information Systems for Business Process Management (3 units)  
 ISYS 575 Information Security Management (3 units)  
 ISYS 663 Information Technology Project Management (3 units)  
 MATH 225 Introduction to Linear Algebra (3 units)  
 MKTG 632 Marketing Research (3 units)\*  
 MKTG 660 Marketing Analytics (3 units)\*  
 MKTG 661 Introduction to Digital Marketing Analytics (3 units)\*  
 \* MKTG courses are available to non-Marketing students on a space-available basis. Students in the Business Analytics concentration are allowed to substitute DS 412 as a prerequisite for MKTG 660.

- <sup>1</sup> **Concentration Elective (3 units)**  
 DS 311 Technologies in Data Analytics (3 units)  
 DS 312 Data Analysis with Computer Applications (3 units)  
 DS 408 Computer Simulation (3 units)  
 DS 601 Applied Management Science (3 units)  
 DS 604 Applied Business Forecasting (3 units)  
 DS 624 Quality Management (3 units)  
 DS 655 Sustainable Supply Chain Optimization (3 units)  
 ECON 301 Intermediate Microeconomic Theory (3 units)  
 ECON 302 Intermediate Macroeconomic Theory (3 units)  
 ECON 312 Introduction to Econometrics (3 units)  
 ECON 450 Health Economics (3 units)  
 ECON 505 Public Economics (3 units)  
 ECON 510/LABR 510 Labor Economics (3 units)  
 ECON 520 Industrial Organization (3 units)  
 ECON 550 Environmental Economics (3 units)  
 ECON 611 International Trade Theory and Policy (3 units)  
 ECON 616 Experimental Economics and Game Theory (3 units)  
 ECON 618 Economic Inference: Methods and Applications (3 units)  
 ECON 640 Health Economics Analysis and Research (3 units)  
 ECON 680 Applied Economics and Data Analysis with R (3 units)  
 ISYS 350 Building Business Applications (3 units)  
 ISYS 565 Managing Enterprise Networks (3 units)  
 ISYS 568 Multimedia Business Applications Development (3 units)