

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: CONCENTRATION IN DECISION SCIENCES - QUANTITATIVE REASONING CATEGORY I/II AND ENG 114

120 Total Units Required

Minimum Number of Units in the Major: 60

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 an advisor in your major program for further guidance.

Course	Title	Units
First Semester		
ECON 101	Introduction to Microeconomic Analysis (Major Prerequisite, D1)	3
ENG 114	Writing the First Year: Finding Your Voice (A2) ¹	3
Select One (Major Prerequisite, B4): ²		3
DS 110	Calculus with Business Applications	
MATH 110	Business Calculus	
GE Area A ³		3
GE Area C		3
	Units	15
Second Semester		
ECON 102	Introduction to Macroeconomic Analysis (Major Core, D1)	3
ISYS 263	Introduction to Information Systems (Major Prerequisite)	3
GE Area A		3
GE Area B: Life Science (B2) and Laboratory Science (B3) ⁴		3-4
GE Area E		3
	Units	15-16
Third Semester		
ACCT 100	Introduction to Financial Accounting (Major Core)	3
Select One (Major Core):		3
DS 212	Business Statistics I	
MATH 124	Elementary Statistics (B4)	

ISED 160	Data Analysis in Education (B4)	
GE Area B: Physical Science (B1) and Laboratory Science (B3) ⁴		3-4
GE Area D		3
SF State Studies or University Elective		3
	Units	15-16
Fourth Semester		
ACCT 101	Introduction to Managerial Accounting (Major Core)	3
GE Area C - Take Two		6
GE Area D		3
SF State Studies or University Elective		3
	Units	15
Fifth Semester		
DS 412	Operations Management ((Major Core))	3
IBUS 330	International Business and Multicultural Relations ((Major Core, UD-D, GP))	3
Select One (Major Core):		3
ACCT 307	Accounting Information Systems	
ISYS 363	Information Systems for Management	
Major Concentration (12 Units Total) - Take One ⁵		3
Major Approved Elective (9 Units Total) - Take One ⁶		3
	Units	15
Sixth Semester		
DS 660GW	Communications for Business Analytics - GEAR (Major Core)	3
Major Concentration (12 Units Total) - Take One ⁵		3
Major Approved Elective (9 Units Total) - Take One ⁶		3
GE Area UD-C: Upper-Division Arts and/or Humanities (Consider SF State Studies Course)		3
SF State Studies or University Elective		3
	Units	15
Seventh Semester		
FIN 350	Business Finance (Major Core)	3
MGMT 405	Introduction to Management and Organizational Behavior (Major Core)	3
MKTG 431	Principles of Marketing (Major Core)	3
Major Concentration (12 Units Total) - Take One ⁵		3

GE Area UD-B: Upper-Division Physical and/or Life Sciences (Consider SF State Studies Course)		3
	Units	15
Eighth Semester		
BUS 682	Seminar on Business and Society (Major Core)	3
BUS 690	Seminar in Business Policy and Strategic Management (Major Core)	3
Major Concentration (12 Units Total) - Take One ⁵		3
Major Approved Elective (9 Units Total) - Take One ⁶		3
SF State Studies or University Elective		3
	Units	15
	Total Units	120-122

¹ ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

² Depending on courses completed through Early Start, students in Pathway/Category III or IV may be required to enroll in a support course to complement their Quantitative Reasoning/B4 requirement. There are multiple course options for this pathway. Before enrolling in a B4 course, students should verify their MATH Pathway/Category in their Student Center (<http://cms.sfsu.edu/content/student-center/>). Information regarding the courses that correspond with your MATH Pathway/Category can be found on the Developmental Studies Office Website (<http://developmentalstudies.sfsu.edu/>).

³ To avoid taking additional units, it is recommended that you meet **SF State Studies** requirements (AERM, GP, ES, SJ) within your GE.

⁴ Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

⁵ **Concentration Courses (12 units)**

Select 12 credit hours from the following:

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 612 Data Mining with Business Applications (3 units)

DS 624 Quality Management (3 units)

DS 655 Sustainable Supply Chain Management (3 units)

⁶ **Approved Electives (9 units)**

Please see one of the undergraduate advisors to select electives.

While additional classes from the above list can be used to fulfill this requirement, students may also use upper-level concentration classes from another department to do so, especially if they are quantitative in nature and are relevant to the degree.