

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: CONCENTRATION IN INFORMATION SYSTEMS ROADMAP – QUANTITATIVE REASONING CATEGORY III/IV AND STRETCH ENGLISH

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 an advisor in your major program for further guidance.

Course	Title	Units
First Semester		
ENG 104	Writing the First Year: Finding Your Voice Stretch I ¹	3
MATH 107	Mathematics for Business Calculus I ²	3
GE Area A ³		3
GE Area C		3
GE Area D: U.S. History (D2)		3
Units		15
Second Semester		
ECON 101	Introduction to Microeconomic Analysis (Major Prerequisite, D1)	3
ENG 105	Writing the First Year: Finding Your Voice Stretch II (A2) ¹	3
MATH 108	Mathematics for Business Calculus II (B4) ²	3
GE Area A		3
GE Area B: Life Science (B2) and Laboratory Science (B3) ⁴		3-4
Units		15-16
Third Semester		
ACCT 100	Introduction to Financial Accounting (Major Core)	3
ECON 102	Introduction to Macroeconomic Analysis (Major Core, D1)	3

ISYS 263	Introduction to Information Systems (Major Prerequisite)	3
GE Area B: Physical Science (B1) and Laboratory Science (B3) ⁴		3-4
GE Area E		3
Units		15-16
Fourth Semester		
ACCT 101	Introduction to Managerial Accounting (Major Core)	3
Select One (Major Core):		3
DS 212	Business Statistics I	
MATH 124	Elementary Statistics (B4) ²	
GE Area C - Take Two		6
GE Area F [±]		3
Units		15
Fifth Semester		
BUS 300GW	Business Communication for Professionals - GVAR (Major Core)	3
FIN 350	Business Finance (Major Core)	3
IBUS 330	International Business and Multicultural Relations (Major Core, UD-D, GP)	3
ISYS 350	Building Business Applications (Major Concentration)	3
Select One (Major Core):		3
ACCT 307	Accounting Information Systems	
ISYS 363	Information Systems for Management	
Units		15
Sixth Semester		
ISYS 463	Information Systems Analysis and Design (Major Concentration)	3
ISYS 464	Managing Enterprise Data (Major Concentration)	3
MGMT 405	Introduction to Management and Organizational Behavior (Major Core)	3
MKTG 431	Principles of Marketing (Major Core)	3

GE Area UD-C: Upper-Division Arts and/or Humanities (Consider SF State Studies Course)	3
Units	15
Seventh Semester	
DS 412	Operations Management (Major Core) 3
ISYS 565	Managing Enterprise Networks (Major Concentration) 3
ISYS 663	Information Technology Project Management (Major Concentration) 3
Major Concentration Elective - 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 Elective - Take One ⁵	3
U.S. and California Government (http://bulletin.sfsu.edu/undergraduate-education/american-institutions/#usg)	3
SF State Studies or University Elective	3
Units	15
Total Units	120-122

- ⁵ **Major Concentration Electives (6 units)**
 ISYS 412 Application Development for Data Analytics (3 units)
 ISYS 471 E-Commerce Systems (3 units)
 ISYS 475 Building Web Applications with Open Source Software (3 units)
 ISYS 512 Business Application Design and Development with .NET (3 units)
 ISYS 556 Building Mobile Business Applications (3 units)
 ISYS 557 Managing Open Source (3 units)
 ISYS 567 Information Systems Internship (3 units)
 ISYS 568 Multimedia Business Applications Development (3 units)
 ISYS 569 Information Systems for Business Process Management (3 units)
 ISYS 573 New Advances in IT in Organizations (3 units)
 ISYS 575 Information Security Management (3 units)
 ISYS 650 Business Intelligence (3 units)

± Given catalog rights, fall 2022 transfer students do not need to complete an Area F course.

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 To determine the best B4 course option, students should complete the online advising activity at mathadvising.sfsu.edu (<https://mathadvising.sfsu.edu>). Questions? Contact Gator Smart Start. (<https://gatorsmartstart.sfsu.edu/>)
 MATH 107 and MATH 108 will satisfy all requirements met by DS 110 and MATH 110.

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

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