

BUSINESS ADMINISTRATION (INFORMATION SYSTEMS) BS + BUSINESS ANALYTICS MS SF SCHOLARS ROADMAP

The San Francisco State Scholars program provides undergraduate students with an accelerated pathway to a graduate degree. Students in this program pursue a bachelor's and master's degree simultaneously. This program allows students to earn graduate credit while in their junior and/or senior year, reducing the number of semesters required for completion of a master's degree.

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 Year		
Fall 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
Spring Semester		
ECON 102	Introduction to Macroeconomic Analysis (Major COre, D1)	3
ISYS 263	Introduction to Information Systems (Major Prerequisite, D1, GP)	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
Second Year		
Fall Semester		
ACCT 100	Introduction to Financial Accounting (Major Core)	3
Select One (Major Core):		3

DS 212	Business Statistics	
MATH 124	Elementary Statistics (B4)	
GE Area B: Physical Science (B1) and Laboratory Science (B3) ⁴		3-4
GE Area D: U.S. History (D2)		3
SF State Studies or University Elective		3
		Units 15-16
Spring Semester		
ACCT 101	Introduction to Managerial Accounting (Major Core)	3
GE Area C - Take Two		6
GE Area F		3
U.S. and California Government (http://bulletin.sfsu.edu/undergraduate-education/american-institutions/#usg)		3
		Units 15
Third Year		
Fall Semester		
BUS 300GW	Business Communication for Professionals - GWAR (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
ISYS 363	Information Systems for Management (Major Core)	3
		Units 15
Spring Semester		
ISYS 463	Information Systems Analysis and Design (Major Concentration) ^{5,6,7}	3
ISYS 464	Managing Enterprise Data (Major Concentration) ^{5,6,7}	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		3
		Units 15

Fourth Year

Fall Semester

DS 412	Operations Management (Major Core)	3
ISYS 565	Managing Enterprise Networks (Major Concentration) ^{5,6,7}	3
ISYS 663	Information Technology Project Management (Major Concentration) ^{5,6,7}	3
Major Concentration Elective - Take One ^{5,6,7,8}		3
GE Area UD-B: Upper-Division Physical and/or Life Sciences		3
Units		15

Spring 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 ^{5,6,7,8}		3
SF State Studies or University Elective - Take Two		6
Units		15

Fifth Year

Fall Semester

Graduate Core/Electives - Take as needed based on prior double-counting ^{6,7}		9
Units		9

Spring Semester

BUS 895	Research Project in Business (Culminating Experience)	3
Graduate Core/Electives - Take as needed based on prior double-counting ^{6,7}		6
Units		9
Total Units		138-140

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/>)

³ To avoid taking additional units, it is recommended that you meet the **SF State Studies** (AERM, GP, ES, S,J) 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.

⁵ Graduate core and/or elective courses may double count for this requirement for a max of 12 units.

⁶ **Graduate Core (18 units)**

- DS 853 Applied Multivariate Analysis (3 units)
- DS 861 Data Mining and Advanced Statistical Methods for Business Analysts (3 units)
- DS 862 Machine Learning for Business Analysts (3 units)
- ISYS 812 Programming and Applications for Data Analytics (3 units)
- ISYS 850 Seminar in Business Intelligence (3 units)
- ISYS 864 Data Management for Analytics (3 units)
- 7 Graduate Electives (9 units)**
- Select Three:
 - DS 852 Managerial Decision-Making (3 units)
 - DS 855 Supply Chain Management (3 units)
 - ECON 825 Applied Time Series Econometrics (3 units)
 - ECON 830 Advanced Econometric Methods and Applications (3 units)
 - ECON 840 Health Economics Analysis and Research (3 units)
 - ECON 880 Applied Economics and Data Analysis with R (3 units)
 - FIN 819 Financial Analysis and Management (3 units)
 - FIN 820 Seminar in Financial Risk Management (3 units)
 - FIN 825 Seminar in Investments (3 units)
 - FIN 836 Seminar in International Finance (3 units)
 - HTM 831 Services Operations Management (3 units)
 - ISYS 814 Information Systems for Strategic Advantage (3 units)
 - ISYS 856 Enterprise Mobile Applications (3 units)
 - ISYS 865 Managing Enterprise Networks (3 units)
 - ISYS 869 Business Process Management (3 units)
 - ISYS 875 Enterprise Cyber Security Management (3 units)
 - MGMT 850 Ethics and Compliance in Business (3 units)
 - MKTG 820 Digital Marketing (3 units)
 - MKTG 864 Seminar in Marketing Research (3 units)
 - MKTG 885 Marketing of High-Technology Products and Services (3 units)
 - MKTG 886 Seminar in Marketing Analytics (3 units)
- Additional electives may be approved by the Director of the MSBA program
- 8 Major Concentration Electives (6 units)**
- ISYS 412 Application Development for Data Analytics (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 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)