

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: CONCENTRATION IN BUSINESS ANALYTICS – BUSINESS ADMINISTRATION ASSOCIATE DEGREE FOR TRANSFER (ADT) WITH 18 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). 18 units in the major [ACCT 100/ACCT 101, DS 110, 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: 48-51 units

ACCT 100/ACCT 101, DS 110, DS 212, ECON 101/ECON 102 met in transfer.

- Prerequisites (0-3 units): ISYS 263 if not met in transfer.
- Upper-division core courses for Business majors (27 units)
- Concentration (21 units)

University Electives: 3 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 |
|-----------------------------------|---|-----------------|
| First Semester | | |
| 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 |
| University Elective | | 3 |
| | | Units 15 |
| Second Semester | | |
| 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) | |
| | | Units 15 |
| Third Semester | | |
| Select One (Major Core): | | 3 |
| BUS 300GW | Business Communication for Professionals - GWAR | |
| DS 660GW | Communications for Business Analytics - GWAR | |

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| 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 |
| Units | | 15 |
| Fourth Semester | | |
| 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 |
| Units | | 15 |
| Total Units | | 60 |

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.

¹ **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)
- 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)