



Economics

Information Systems and Analytics Concentration 4-Year Semester

2026-2028 Semester Catalog

TOTAL SEMESTER UNITS REQUIRED : 120

YEAR ONE		YEAR TWO		YEAR THREE		YEAR FOUR	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
Survey of Economics & Using Big Data to Solve Economic and Social Problems ECON 2001[^] (3) & ECON 2021 (3) OR Microeconomics & Macroeconomics ECON 2030 (3) & ECON 2040 (3)	Calculus for Data Science I MATH 1264 (4) <i>Prerequisite: Appropriate Math Placement; MATH 1005 with a grade of C- or better; or MATH 1007 with a grade of C- or better.</i>	Statistics I STAT 1510[^] (3) <i>Prerequisite: One of the following: MATH 116, MATH 118, MATH 119, MATH 1004, MATH 1005, MATH 1006, MATH 1007, or appropriate Math Placement Level.</i>	Intermediate Microeconomics ECON 3030 (4) <i>Prerequisite: One of the following: ECON 201, ECON 221, ECON 2001, or ECON 2030; and one of the following: MATH 121, MATH 141, MATH 1261, or DATA/MATH 1264. Corequisite: One of the following: MATH 123, MATH 241, DATA/MATH 1265, or MATH 2263.</i>	Intermediate Macroeconomics ECON 3040 (4) <i>Prerequisite: One of the following: ECON 201, ECON 222, ECON 2001, or ECON 2040. Corequisite: ECON 311 or ECON 3030.</i>	Programming for Economics and Analytics & Project ECON 3015 (3) & ECON 3015A (1) <i>Prerequisite: Junior Standing</i>	ECON 4000-level Elective & Project/Activity Course (4)* <i>(See Catalog for Courses)</i>	Applied Senior Project ECON 4460 (4) <i>Prerequisite: Senior Standing and Senior standing; ECON 311 or ECON 3030; ECON 313 or ECON 3040; ECON 339 or ECON 3021; and two 4000-level ECON courses</i>
Financial Accounting BUS 2214 (3) OR Legal Responsibilities of Business BUS 2207 (3)	Calculus for Data Science II MATH 1265 (4) <i>Prerequisite: MATH 1264 with a grade of C- or higher</i>	Econometrics ECON 3021 (4) <i>Prerequisite: ECON 221 or ECON 2030 and ECON 222 or ECON 2040, or ECON 201 or ECON 2001; and one of the following: MATH 121, MATH 141, MATH 221, MATH 1261, MATH 1264, or MATH 1267; and one of the following: STAT 252, STAT 301, STAT 1510, or STAT 1220.</i>	The Economics of Equity and Social Welfare ECON 3050 (4) <i>Prerequisite: ECON 311 or ECON 3030</i>	Business Application Development BUS 3392 (3) <i>Prerequisite: BUS 391 or 3391</i>	Database Systems in Business BUS 3393 (3) <i>Corerequisite: BUS 392 or BUS 3392</i>	IT Infrastructure and Security Management BUS 3399 (3) <i>Prerequisite: BUS 391 or BUS 3391</i>	ECON 4000-level Elective & Project/Activity Course (4)* <i>(See Catalog for Courses)</i>
GE 1A (3)	GE 1C (3)	GE 1B (3)	Information Systems BUS 3391 (3) <i>Prerequisite: Completion of one course in GE Area 1 with a grade of C- or better (GE Area A ITP 125 for 2022-26 catalogs); or ITP 1125, Industrial Technology and Industrial Technology and Packaging major or Industrial Technology minor.</i>	Connected Activities: Concentration Project Course (1) <i>Concentration requires 3 connected activities alongside concentration coursework.</i>	Systems Analysis and Design BUS 3394 (3) <i>Prerequisite: BUS 391 or 3391</i>	Concentration Elective (3)* <i>(See Catalog for Courses)</i>	Business Analytics BUS 4497 (3) <i>Prerequisite: One of the following: STAT 252, STAT 301, STAT 1220, or STAT 1510.</i>
GE 4A (3) <i>Note: Area 4 courses must come from at least two different prefixes</i>	GE 3A (3)	GE 3B (3)	GE 5A/5C (3-4)**	GE 6 (3)	Connected Activities: Concentration Project Course (1) <i>Concentration requires 3 connected activities alongside concentration coursework.</i>	Concentration Project Course (1) <i>Concentration requires 3 connected activities alongside concentration coursework.</i>	GE UD 3 (3)
16 UNITS	16 UNITS	14 UNITS	14-15 UNITS	GE UD 4 (3)[^] <i>Note: Area 4 courses must come from at least two different prefixes*</i>	GE 5B/C (3-4)**	GE UD 2 or 5 (3)	FREE ELECTIVE (3)
16 UNITS	16 UNITS	14 UNITS	14-15 UNITS	14 UNITS	14-15 UNITS	14 UNITS	17 UNITS

Please Note: This flowchart is an example and not a template of your individualized plan. You will need to consult the Catalog and Degree Progress Report for detailed information about what you need to graduate. OCOB Academic Advising is available for assistance in this process.

*Refer to current catalog for course requirements

** Need to include 5C lab component with either option

[^] Double fulfillment opportunity. Free electives may be needed to meet unit total.

! - Please review catalog for required concentration activities. For IS&A concentration, only 3 connected activities are required.

Course Color Key and Legend

MAJOR	Course Title Course # (units) Prerequisite [GE] if applicable Special Notes
SUPPORT	
GE	
CONCENTRATION	

Please note: Only take Free Electives if needed. Free Electives can be taken any term.

Additional Requirements

Click the links below to learn more about how to complete these requirements before graduation.

U.S. CULTURAL PLURALISM (USCP)

GRADUATION WRITING REQ. (GWR)