

B.S. Economics, Finance Concentration Checklist

Prerequisites to the Major

MATH REQUIREMENT

Successful completion or demonstrated proficiency required. Completion of higher-level math course demonstrates proficiency in lower-level math course.

- ___ MATH 111L **or** MATH 105L and MATH 106L
- ___ MATH 122/112L **or** MATH 122L
- ___ MATH 202 or MATH 212 **or** MATH 219 **or** MATH 222 **or** any higher-level math course with MATH 212 as a prerequisite

STATISTICS REQUIREMENT

Year of Matriculation	Permitted Courses
Pre-Fall 2019	<ul style="list-style-type: none">• ECON 104 Statistical Foundations for Econometrics and Data Science• STA 111 Probability and Statistical Inference• STA 130 Probability and Statistics in Engineering*• STA 250/MATH 342 Statistics*• STA 230/MATH 230 Probability* <p>*Pre-fall 2019 students using STA 130, STA 250/MAT 342, or STA 230/MAT 230 for their major requirements must request a permission number to enroll in ECON 204, Econometrics and Data Science (old number ECON 208).</p>
Fall 2019	<ul style="list-style-type: none">• ECON 104 Statistical Foundations for Econometrics and Data Science• STA 111 Probability and Statistical Inference• STA 130 Probability and Statistics in Engineering*• STA 250/MATH 342 Statistics* <p>*Fall 2019 students using STA 130 or STA 250/MAT 342 for their major requirements must request a permission number to enroll in ECON 204, Econometrics and Data Science (old number ECON 208).</p>
Fall 2020	<ul style="list-style-type: none">• ECON 104 Statistical Foundations for Econometrics and Data Science• STAT 432/MATH 343 Theory and Methods of Statistical Learning and Inference

Core Economics Courses

ECON 205D may be taken as a co-requisite with ECON 210D.

- ___ ECON 101D Economic Principles (Those with AP Macro & Micro scores of 4 or higher may receive credit for ECON 101.)
- ___ ECON 104 Statistical Foundations for Econometrics and Data Science
- ___ ECON 201D Intermediate Microeconomics I
- ___ ECON 205D Intermediate Microeconomics II (Prerequisites are enforced for ECON 205D.)
- ___ ECON 204D (old number ECON 208D) Econometrics and Data Science (Must be taken before senior year.)
- ___ ECON 210D Intermediate Macroeconomics

Core Finance Course

- ___ ECON 372 Asset Pricing and Risk Management
(This course may **not** be used as an elective for the finance concentration. Students pursuing the B.S. degree without this concentration may use this course as one of their five electives.)

Upper-Level Economics Electives

Five (5) total economics courses at the 300-level or above, with at least one course at the 300-level and one course at the 400-level. Courses 500-549 can only be counted toward the major with approval from the director of undergraduate studies. If you take a 400-level finance elective, that will fulfill the 400-level requirement, but you must take a total of FIVE (5) electives.

- ___ 3xx elective
- ___ 4xx elective
- ___ Finance elective 1
- ___ Finance elective 2
- ___ Finance elective 3

Continued on reverse

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Of the five electives for the B.S. degree, **three** must be from the following^{1,2}:

- ECON 256 Practical Financial Markets
- ECON 305/3055 History of International Monetary & Financial Crisis
- ECON 307A Understanding Financial Bubbles and Crises
- ECON 333 Private Equity
- ECON 353/353A Financial Institutions
- ECON 368/PSY 368 Behavioral Finance
- ECON 370/370A Global Capital Markets
- ECON 373 Corporate Finance
- ECON 376 Commodities Markets
- ECON 377/377A The Economics of Fin Derivatives & Fin Engineering
- ECON 378 Financial Risk Management
- ECON 379/ICS 379 Emerging Markets
- ECON 381S Inside Hedge Funds
- ECON 382/390 Asset Management
- ECON 383/383A Foreign Exchange Markets
- ECON 384 Investing in Emerging Markets
- ECON 390 Special Topics courses when Finance related, upon approval
- ECON 391 Private Equity Buyouts
- ECON 413 Forecasting Financial Markets
- ECON 455 International Finance
- ECON 451/490 Housing and the Economy
- ECON 461/490S How Markets Work Theory and Evidence
- ECON 471/471A Financial Markets and Investments
- ECON 472S/490S Goodner Equity Research Project
- ECON 476 Empirical Asset Pricing
- ECON 474S Eichel Securitization Project
- ECON 477/Econ 514 Fixed Income Markets and Quantitative Methods
- ECON 490 Special Topics courses when Finance related, upon approval
- ECON 512 Equity Valuation and Financial Analysis
- ECON 513 Structuring Venture Capital and Private Equity Transactions
- ECON 581 Investment Strategies
- ECON 590 Special Topics courses when Finance related, upon approval
- ECON 673/MATH 581 Mathematical Finance
- ECON 674/MATH 582 Financial Derivatives
- ECON 678 Derivatives for Speculation and Risk Management
- BME 385 Introduction to Business in Technology-Based Companies
- ENERGY 620 Energy Finance
- FINTECH 533² Financial Engineering (Previous number/name EGR 590 Financial Informatics)
- FINTECH 534² Quantitative Financial Analysis for Technology-Driven Investment
- FINTECH 536² Robo-Advising (Previous number EGRMGMT 590)
- FINTECH 550 Emerging Trends for FinTech
- FINTECH 552/590² Fintech Business Models
- FINTECH 564² Blockchain
- FINTECH 520/590² Financial Institutions: Products & Services
- MATH 381K Intermediate Mathematical Finance (Duke Kunshan University only)

General Restrictions

- Please visit <https://bit.ly/39gR03G> for more information.

¹Certain independent studies and honors seminars may be used to satisfy the finance electives requirement, but they need advance approval from the director of undergraduate studies.

²Students are limited to counting a maximum of TWO Fintech courses toward the finance concentration requirements.