COLLEGE OF SCIENCE
Department of Economics
Bachelor of Arts
Major: Economics
Option: Managerial Economics and Data Science (MEDS)
For Students Entering Under UG Catalog 2023-2024

Pathways to General Education Requirements (45-46 hours)

1. Discourse (9 hours)
Foundational: ENGL 1105 First Year Writing and ENGL 1106 Freshmen English[1]   (6) _____
Advanced/Applied: Select one "1A" course   (3) _____

2. Critical Thinking in the Humanities (6 hours)
_____   (3) _____
_____   (3) _____

3. Reasoning in the Social Sciences (6 hours)
_____   (3) _____
_____   (3) _____
This requirement cannot be satisfied by ECON 2005 and ECON 2006 since they are included
in the Economics Common Degree Core Requirements.

4. Reasoning in the Natural Sciences (6 hours)
_____   (3) _____
_____   (3) _____

5. Quantitative and Computational Thinking (9-10 hours)
Foundational: MATH 1225 Calculus of a Single Variable (preferred)
  or MATH 1025 Elementary Calculus   (3-4)____

Select one additional "5F" course _____   (3) _____
Advanced/Applied: Select one "5A" course_____   (3) _____

MATH 1026, MATH 1226, STAT 3005, STAT 3615, STAT 3604, and BIT 2406 cannot be used to fulfill
Pathway Concept 5 if they are used to fulfill the Economics Common Degree Core Requirements. Students
electing to count MATH 1025/1026 toward their economics degree requirements must earn at least a B- in
each. Students electing to count MATH 1225/1226 toward their economics degree requirements must earn
at least a C- in each.

6. Critique and Practice in Design and the Arts (6 hours)
Design Course (6D) _____   (3) _____
Arts Course   (6A) _____   (3) _____

7. Critical Analysis of Identity and Equity in the United States (3 hours)
_____   (3) _____

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[1] These courses have pre-requisites. Please consult the undergraduate course catalog or check with your advisor.

Major Requirements (51-52 hours)
STUDENTS NEED 30 CREDIT HOURS OF APPROVED ECONOMICS COURSES TO GRADUATE.

I. Economics Common Degree Core Requirements (21-22 hours)

ECON 2005 Principles of Economics (3) _____
ECON 2006 Principles of Economics[1] (3) _____
ECON 3104 Microeconomic Theory[1] (3) _____
ECON 3204 Macroeconomic Theory[1] (3) _____
ECON 2005, ECON 2006, ECON 3104, and ECON 3204 must be completed
with a grade of C or better.

ECON 3254 Analysis of Economic Data[1] (3) _____
or ECON 4304 Econometric Methods[1]

MATH 1226 Calculus of a Single Variable[1] or MATH 1026 Elementary Calculus[1] (3-4) _____
MATH 1226 must be completed with a grade of C- or better.
MATH 1026 must be completed with a grade of B- or better.
MATH 1226 is preferred by Department.

Statistics Requirement (Choose 1) (3) _____
STAT 3005 Statistical Methods[1]
STAT 3604 Statistics for Social Science[1]
STAT 3615 Biological Statistics[1]
STAT 4706 Statistics for Engineers[1]
BIT 2406 Introduction to Business Statistics, Analytics, & Modeling[1]
STAT 3005, 3604, 3615, 4706 or BIT 2406 must be completed with a grade of a C or better.

II. Economics Major with MEDS Option Course Requirements (15 hours)

ECON 3054 Introduction to Forecasting[1] (3) _____
ECON 3154 Managerial Economics[1] (3) _____
ECON 4084 Industry Structure[1] (3) _____
ECON 4314 Big Data Economics[1] (3) _____
ECON 4614 R Programming in Economics[1] (3) _____
Students that complete ECON 2025H (which replaces ECON 2005 and ECON 3104)
must complete an additional 3 hours of ECON electives.
Students that complete ECON 2026H (which replaces ECON 2006 and ECON 3204)
must complete an additional 3 hours of ECON electives.

III. MEDS Course Requirements (15 hours)

A. Diverse Perspectives (Choose 1) (3) _____
ECON 1104 Economics of Gender
ECON 1204 Economics of Race
ECON 1214 Economic History of Diversity and Inclusion

[1] These courses have pre-requisites. Please consult the undergraduate course catalog or check with your advisor.

B. Data in Context (Choose 2)
   ECON 3134 (BDS 3134) Choice and Behavior[1]
   ECON 3144 Economics of Regulation[1]
   ECON 3214 Money and Banking[1]
   ECON 4014 Environmental Economics[1]
   ECON 4054 Public Finance[1]
   ECON 4074 Labor Economics[1]
   ECON 4214 Economics of Health Care[1]
   ECON 4404 Economics of Organizations[1]
   ECON 4424 Theory of Games and Economic Behavior[1]
   ECON 4434 Experimental Economics[1]

   _____   (3) _____
   _____   (3) _____
   ECON 3004, 4754, 4964, 4974, 4974H, and 4984 may be used as one of the two
   required courses with approval from the department prior to the start of the semester
   in which the course is completed.

C. Analytical Reasoning (Choose 2)
   MATH 2114 Introduction to Linear Algebra[1]
   MATH 2114H Introduction to Linear Algebra[1]
   MATH 2405H Mathematics in a Computational Context[1]
   STAT 3094 SAS Programming[1]
   STAT 3654 (CMDA 3654) (CS 3654) Introductory Data Analytics and Visualization[1]
   STAT 3104 Probability and Distributions[1]
   CS 1064 Introduction to Programming in Python[1]

   _____   (3) _____
   _____   (3) _____
   Other MATH, STAT, or CS courses may be used as one of the two required courses with approval from the department prior to the
   start of the semester in which the course is completed.

Free Electives (sufficient to achieve the required 120 total credit hours)

A free elective is any course a student takes toward the completion of the required minimum of 120 credit hours
that does not complete a degree requirement.

Total Hours Required

A minimum of 120 semester hours are required for graduation.

Overall and In-Major GPA

Students must have a 2.0 overall GPA and 2.0 in-major GPA to graduate. Only ECON courses count toward the
in-major GPA.

Foreign Language

Students who did not successfully complete at least two years of a single foreign, classical, or sign language
during high school must successfully complete six semester hours of a single foreign, classical, or sign language
at the college level. Courses taken to meet this requirement do not count toward the hours required for
graduation. Please consult the Undergraduate Catalog for details.

[1] These courses have pre-requisites. Please consult the undergraduate course catalog or check with your advisor.

Progress Toward Degree (Policy 91)

In order to remain in the Economics Major, students must meet the following requirements:

1. Upon having attempted 72 semester hours (including transfer, advanced placement, advanced standing, credit by examination, course withdrawal), students must have completed

   ECON 2005 Principles of Economics (Micro) with a C or better   3 hrs
   ECON 2006 Principles of Economics (Macro) with a C or better   3 hrs
   ECON 3104 Microeconomic Theory with a C or better   3 hrs

2. Upon having attempted 96 semester hours, students must have an In-Major grade point average of 2.0 or above and must have completed the above courses plus:

   ECON 3204 Macroeconomic Theory with a C or better   3 hrs
   STAT 3005, 3604, 3615, 4706 or BIT 2406 all with a C or better   3 hrs

3. Students may not repeat any ECON course more than once, including late course withdrawals.
4. Students must register for at least three 3 credit ECON course during each academic year unless they have completed all ECON courses required for graduation.
5. Students may not repeat more than 3 ECON courses in the major.

A student who does not make satisfactory progress toward degree will be required to change their major out of Economics.