MISSOURI S&T | Computer Science + Economics

Expand Your Career Opportunities

Become more competitive in today's job market with industry-focused certificates

DECISION DATA ANALYTICS CERTIFICATE

This hands-on certificate trains you in programming, modeling, forecasting, econometrics, and analytics through real-world projects. With half the courses taught by industry experts, you'll gain marketplace insight and the in-demand skills to turn data into decisions and position yourself as a data-driven professional ready to lead in business, government, and global organizations.

The certificate requires a total of four courses (12 hours).

- **ECON 3300 Introduction to Econometrics (fall semester)**
- **ECON 3333 Computational Economics (spring semester)**
- **ECON 5360 Data-Driven Strategic Insights (fall semester)**
- **ECON 5380 Data Intelligence Using Case Studies (spring semester)**

FINANCIAL ECONOMICS AND TECHNOLOGY CERTIFICATE

This certificate gives you an edge in today's financial industry. You'll master programming, quantitative methods, and economic theory while applying them to real financial decisions. With courses partly taught by corporate executives, you'll solve real-world challenges and graduate with tools in demand by top banks, consulting firms, fintech, insurance, and investment firms.

The certificate requires a total of four courses (12 hours).

- **ECON 3333 Computational Economics (spring semester)**
- **ECON 4383 Financial Economics (spring semester) or ECON 5543 Innovation Economics and Finance (fall semester)**
- **ECON 5337/MATH 5737 Financial Mathematics (fall semester)**
- **ECON 5360 Data-Driven Strategic Insights (fall semester)**

Sign Up

For more info!

GUIDE
for COMPUTER SCIENCE MAJORS to Add Economics as a Secondary Major

ECONOMICS AS A SECONDARY MAJOR:

For computer science students seeking to elevate their studies, S&T's STEM Economics program prepares them to become future industry leaders capable of leveraging core economic principles and quantitative methods to articulate and recommend technological and innovation investments aligned with the current and anticipated economic landscape. With expertise in market dynamics, global business, data analytics, and public policy, they possess the essential skill set for strategic decision-making crucial to innovation and investment projects in any organization.

Required a total of 10 courses (30 credit hours):

Most computer science majors can earn a second degree in Economics along with certificates in Decision Data Analytics and Financial Economics & Technology without extending graduation time.

1. ECON 1100 Principles of Microeconomics
2. ECON 1200 Principles of Macroeconomics
3. ECON 3300 Introduction to Econometrics
4. ECON 3333 (substituted by COMP SCI 1570 & 1580)
5. ECON 5360 / NUC ENG 5360 Data-Driven Strategic Insights
6. ECON 5380 Data Intelligence Using Case Studies
7. ECON 4383 Financial Economics or
   ECON 5543 Innovation Economics and Finance
8. ECON 5337 / MATH 5737 Financial Mathematics
9. Any COMP SCI 4000 or 5000 level course
10. STAT 3113, 3115, or 3117

3 - 8 are all courses needed to acquire **both** certificates.

**Note that ECON 5360 and ECON 5337 are qualified as Sci/Eng Elective.*

TO PROCEED

Contact **Dr. Melody Lo**, the Economics department chair, at melodylo@mst.edu or 573-341-4618.