

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW/CHANGE PROGRAM REQUEST</b> <b>Graduate Programs</b>		UGPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
	<b>Department</b> Economics  <b>College</b> College of Business		
<b>Program Name</b> Master of Science in Economics: Econometrics and Data Analytics		<input checked="" type="checkbox"/> <b>New Program*</b> <input type="checkbox"/> <b>Change Program*</b>	<b>Effective Date</b> (TERM & YEAR) Fall 2022
<p><b>Please explain the requested change(s) and offer rationale below or on an attachment.</b></p> <p>1. The Master of Science in Economics currently offers two concentrations: Financial Economics and International Economics. However, there is a high demand among employers for individuals with a specialization in economic data analysis.</p> <p>2. The Department of Economics already offers three relevant courses in econometrics: ECO 6426 (Advanced Econometrics), ECO 6424 (Topics of Econometrics), and ECO 6930 (Panel Data). This concentration will emphasize these courses along with complementary courses in Business Analytics and Big Data offered by the Department of Information Technology and Operations Management (ITOM).</p> <p>3. This concentration will attract new students into the MS Economics program and promote enrollment in relevant courses in both the Department of Economics and Department of ITOM.</p>			
<p><small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small></p>			
<b>Faculty Contact/Email/Phone</b> Eric Chiang / <a href="mailto:chiang@fau.edu">chiang@fau.edu</a> / 954-802-3571		<b>Consult and list departments that may be affected by the change(s) and attach documentation</b> Department of Information Technology and Operations Management (ITOM). Memo from Department attached.	
<b>Approved by</b> Department Chair <u>Eric Chiang</u> College Curriculum Chair <u>[Signature]</u> College Dean <u>Ken Johnson</u> UGPC Chair <u>[Signature]</u> UGC Chair <u>[Signature]</u> Graduate College Dean <u>[Signature]</u> UFS President _____ Provost _____		<b>Date</b> 1/20/2022 <u>2/9/2022</u> 2/21/2022 Mar 3, 2022 Mar 3, 2022 Mar 3, 2022	

Email this form and attachments to [UGPC@fau.edu](mailto:UGPC@fau.edu) 10 days before the UGPC meeting.

# MEMORANDUM

DATE: January 20, 2022

TO: COB Graduate Council

FROM: Eric Chiang  
Director, Master of Science in Economics  
Department of Economics  
[chiang@fau.edu](mailto:chiang@fau.edu)

SUBJECT: New concentration: Master of Science in Economics: Econometrics and Data Analytics

**Program Description:** The M.S. in Economics: Econometrics and Data Analytics concentration emphasizes the growing demand by employers for working professionals with skills in economics and data analytics. This program focuses on coursework in econometrics, including time series and panel data. Field courses in complementary subjects including Big Data, Business Analytics, and Blockchain will enhance a student's skillset.

**Program Minimum Credits: 30**

**Program Requirements:**

Required Courses (12 credits): Complete all four of the following courses:

- ECO 6115: Advanced Microeconomics
- ECO 6206: Advanced Macroeconomics
- ECO 6403: Advanced Mathematical Economics
- ECO 6426: Advanced Econometrics

Field Courses (9 Credits): Select three of the following four courses:

- ECO 6435: Panel Data
- ECO 6424: Topics of Econometrics
- ISM 6404: Introduction to Business Analytics and Big Data
- ISM 6405: Advanced Business Analytics

Business Courses (3 Credits): Select one of the following courses:

- ISM 6136: Data Mining and Predictive Analytics
- QMB 6303: Data Management and Analysis with Excel
- ISM 6645: Blockchain and Digital Business Transformation
- ISM 6427C: Business Innovation and Artificial Intelligence
- Additional course from the list of Field Courses

Electives or Thesis (6 Credits): Select two of the following courses OR prepare a 6 credit Master's thesis (ECO 6971)

- ECO 6XXX: Any 6000-level Economics course
- ISM/QMB 6XXX: Additional course from the list of Business Courses (only 3 elective credits may be a non-ECO course)

## FAU Catalog Addition:

### Econometrics and Data Analytics Concentration

Completion of the core classes above and the following:

Three Field Courses (9 credits)		
Panel Data	ECO 6435	3
Topics of Econometrics	ECO 6424	3
Introduction to Business Analytics and Big Data	ISM 6404	3
Advanced Business Analytics	ISM 6405	3
One Graduate Course in ITOM (3 credits)		
Data Mining and Predictive Analysis	ISM 6136	3
Data Management and Analysis with Excel	QMB 6303	3
Blockchain and Digital Business Transformation	ISM 6645	3
Business Innovation and Artificial Intelligence	ISM 6427C	3
Additional course from Field Courses above	ECO/ISM	3

### ***Master's Thesis or Two Graduate Courses in Economics or ITOM (6 credits):***

Students may elect to write a master's thesis for 6 credits, take 6 additional credits in economics (ECO 6000-level or higher), or take 3 additional credits in economics (ECO 6000-level or higher) and 3 additional credits from the list of ITOM courses above.

### **The Master's Thesis**

Students electing to write a master's thesis may select the thesis topic and thesis committee. The thesis is written under supervision of this committee, composed of a thesis director and at least two other faculty members. One member of the committee must be from outside the department.

## Eric Chiang

---

**From:** Tamara Dinev  
**Sent:** Friday, January 7, 2022 7:25 AM  
**To:** Eric Chiang  
**Cc:** Monica Escaleras  
**Subject:** RE: MS Economics: Concentration in Econometrics and Data Analytics

Thank you, Eric!  
I have no objections to the program. Good luck!

Best Regards:  
Tamara

=====

Tamara Dinev, Ph.D., Department Chair and Professor  
Dean's Distinguished Research Fellow  
Department of Information Technology and Operations Management, FL 219  
College of Business, Florida Atlantic University  
Boca Raton, Florida 33431  
tel. (561) 297-3181, email: [tdinev@fau.edu](mailto:tdinev@fau.edu)  
Google Scholar: <https://scholar.google.com/citations?user=YH8QZ-YAAAAJ&hl=en>

---

**From:** Eric Chiang <[chiang@fau.edu](mailto:chiang@fau.edu)>  
**Sent:** Thursday, January 6, 2022 3:22 PM  
**To:** Tamara Dinev <[tdinev@fau.edu](mailto:tdinev@fau.edu)>  
**Cc:** Monica Escaleras <[mescaler@fau.edu](mailto:mescaler@fau.edu)>  
**Subject:** MS Economics: Concentration in Econometrics and Data Analytics

Dear Tamara,

Our Department will be moving forward with the attached proposal to introduce a new concentration in our MS Economics program, titled Econometrics and Data Analytics.

This concentration will allow students to take classes (minimum of 2, maximum of 4) from your department, as indicated in the attached document.

In order to prepare the documents, we need to contact the affected departments to ensure there are no objections. Can you kindly review this document and respond if you have any concerns with us submitting the proposal for approval?

Thank you!

Eric

---

### Eric P. Chiang, Ph.D.

Associate Professor and Graduate Director  
Director of Instructional Technology  
**Florida Atlantic University**  
Department of Economics, OD 201L  
777 Glades Road  
Boca Raton, FL 33431  
**P** | 561.297.2947