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| For Academic Affairs and Research Use Only | |
| Proposal Number |  |
| CIP Code: |  |
| Degree Code: |  |

**New or Modified Course Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| --- |
| **[ ]New Course, [ ]Experimental Course (1-time offering), or [ √ ] Modified Course (Check one box)** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

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| --- | --- |
| Jim Washam 10/21/2020 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Patricia Quinn Johnston 10/26/2020 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| Melodie Philhours 10/28/2020  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Mary Elizabeth Spence 10/27/2020 **Office of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| Melody Lo 10/28/2020 **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

1. **Contact Person (Name, Email Address, Phone Number)**

Gauri – Shankar Guha [gguha@astate.edu](mailto:gguha@astate.edu) (870) 689-8465

1. **Proposed starting term and Bulletin year for new course or modification to take effect**

Fall 2021: Bulletin Year 2021-22

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

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|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** | **ECON** | **N/A** |
| **Number\*** | **3113** | **N/A** |
| **Title** | **DATA ANALYSIS** | **APPLIED ECONOMETRICS** |
| **Description\*\*** | Computer integrated analysis of descriptive and inferential busi­ness statistics with an emphasis on the application of statistical techniques and interpretation.  Prerequisite, ECON 2113. Demand. | Survey of techniques used for the modeling and measurement of quantitative relationships among key economic and business variables, using a current, platform independent computer software package.  Prerequisite: ECON 2113 or STAT 3233. Spring. |

***\**** (Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*. )

\*\*Forty words or fewer as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? Yes/No] Yes**

(Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. **Yes / No** Are there any prerequisites? YES
   1. If yes, which ones?

ECON 2113 or STAT 3233

* 1. Why or why not?

This course requires prior training in basic statistics

1. **Yes / No** Is this course restricted to a specific major?
   1. If yes, which major? Enter text...

1. **Proposed course frequency [Modification requested? Yes/No] YES**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

Spring

1. **Proposed course type [Modification requested? Yes/No] NO**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

Lecture

1. **Proposed grade type [Modification requested? Yes/No] NO**

What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Standard Letter

1. **Yes / No** Is this course dual-listed (undergraduate/graduate)? NO
2. **Yes / No** Is this course cross-listed? NO

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross-listed course.)*

**a.** – If yes, please list the prefix and course number of the cross-listed course. N/A

**b.** – Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies? N/A

1. **Yes / No** Is this course in support of a new program?

a. If yes, what program?

NO

1. **Yes / No** Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)? YES

a. If yes, which course? ECON 3113 Data Analysis

**Course Details**



1. **Proposed outline** **[Modification requested? Yes/No]**

(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)



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| **WEEK** | **TOPIC COVERED** |
| 1 | An Introduction to R |
| 2 | R as a Programming Language |
| 3 | Data Management in R |
| 4 | Simple Linear Regression |
| 5 | Multiple Linear Regression |
| 6 | Linear Regression with Time Series Data |
| 7 | Linear Regression with Panel Data |
| 8 | Regression Diagnostics: Diagnostic Tests |
| 9 | Generalized Linear Models |
| 10 | Binary Dependent Variables |
| 11 | Regression Models for Count Data |
| 12 | Time Series Models: “Naive”Methods” |
| 13 | Classical Model-Based Analysis |
| 14 | Stationarity, Unit Roots, and Cointegration |
| 15 | *Presentation of Student Research* |
| FINALS |  |

1. **Proposed special features** **[Modification requested? Yes/No]**

(e.g. labs, exhibits, site visitations, etc.)

NO

1. **Department staffing and classroom/lab resources**

Existing faculty will teach the course, using existing computer labs.

1. Will this require additional faculty, supplies, etc.?

NO

1. **Yes / No** Does this course require course fees?

NO

*If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

The modifications are driven by the need to address desiderata of the modern business environment. The current course description is somewhat archaic reflecting the industry requirements of earlier decades. The modified description and course contents are designed to train students in more appropriate and contemporary business professional skills. Predictive analysis using platform independent computer software is a skill that is becoming increasingly attractive to employers.

**New Course Justification (New Courses Only)** N/A

1. Justification for course. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

Enter text...

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

Enter text...

c. Student population served.

Enter text...

d. Rationale for the level of the course (lower, upper, or graduate).

Enter text...

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. **Yes / No** Do the proposed modifications result in a change to the assessment plan? NO

*If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

Successful students will be able to: Demonstrate critical thinking skills.

1. Considering the indicated program-level learning outcome/s (from question #19), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #19)** | Successful students will be able to: Demonstrate critical thinking skills. |
| Assessment Measure | We will require that students write an essay or paper in which students will demonstrate critical thinking skills including: identification of an issue in context; analysis of appropriate supporting evidence; integration of various positions; and identification and assessment of conclusions, implications and consequences. |
| Assessment  Timetable | Fall of every 4th year |
| Who is responsible for assessing and reporting on the results? | Faculty in Economics and Finance |

*(Repeat if this new course will support additional program-level outcomes)*

**Course-Level Outcomes**

1. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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| **Outcome 1** | Critical thinking |
| Which learning activities are responsible for this outcome? | Demonstrate proficiency for carrying out forecasting using alternate techniques. Exams will require data analysis. |
| Assessment Measure | Exams |

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| **Outcome 2** | Predictive analysis and presentation skills |
| Which learning activities are responsible for this outcome? | Collecting and analyzing data using econometric models and computer algorithms.  Presenting research results in professional form. |
| Assessment Measure | Student Research Project |

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.** |

**BEFORE**

**Economics (ECON)**

**ECON 2113. Business Statistics I** Statistical methods used in studying business and eco­nomic data, averages and dispersions, probability, sampling, statistical inference, estimation, tests of hypotheses, index numbers, linear regression and correlation. Prerequisites, MATH 1023 or MATH 2143, and CIT 1503 or CS 1013. Fall, Spring, Summer. (ACTS#: BUSI 2103)

**ECON 2313. Principles of Macroeconomics** National income accounting, inflation and unemployment, competing theories of national income, fiscal policy, the Federal Reserve system and monetary policy, and international trade. Fall, Spring, Summer. (ACTS#: ECON 2103)

**ECON 2323. Principles of Microeconomics** Principles of resource allocation, supply and demand, consumer behavior, costs of production, the competitive model, oligopoly, and factor markets. Fall, Spring, Summer. (ACTS#: ECON 2203)

**ECON 2333. Economic Issues and Concepts** Designed to give the student a basic under­standing of our economic system. Basic economic concepts will be explored and contemporary economic problems and issues will be examined in light of the concepts learned. Fall, Spring. 471

**~~ECON 3113. Data Analysis~~** ~~Computer integrated analysis of descriptive and inferential busi­ness statistics with an emphasis on the application of statistical techniques and interpretation. Prerequisite, ECON 2113. Irregular.~~

**ECON 3313. Microeconomic Analysis** Designed to develop an analytical framework for the study of the determination of relative prices and the allocation of resources in a market economy. The course will cover consumer choice and demand, resource utilization and the theory of the firm, competitive market equilibrium and resource allocation, and noncompetitive market structures. Prerequisites, ECON 2313 and 2323. Fall.

**ECON 3323. Money and Banking** Monetary and banking history, with emphasis on the theory of money and banking in the United States, operations of commercial banks and the Federal Reserve System. Prerequisites, ECON 2313 and 2323. Spring.

**ECON 3353. Macroeconomic Analysis** Explains economic theories as they relate to national policy making. Emphasis on causes of inflation and unemployment. Prerequisites, ECON 2313 and 2323. Spring.

**ECON 3363. Labor Economics** The economics of labor markets, factors affecting economy demand for labor and the decisions of workers to supply labor. Current labor market problems such as unemployment, unions, poverty and productivity will be analyzed. Prerequisites, ECON 2313 and 2323. Irregular.

**ECON 370V. Economics Internship** Practice experience in economic research and development. Prerequisites, ECON 2313 and ECON 2323. Permission of department chair and internship director required. Fall, Spring.

**ECON 4023. Free Enterprise and the Market: A Survey of Austrian Economics** Survey of the contributions of the Austrian school of Economics. Topics include the importance of entrepreneur­ship, the proper role of the state, the socialist calculation debate, the Hayek-Keynes debate, and institutions that facilitate the use of specialized and diffusely-held knowledge. Prerequisites, ECON 2313 and ECON 2323. Spring.

**ECON 4103. International Trade** Economic theory and history of international trade. Topics such as comparative advantage, the effect of protectionism and determination of exchange rates will be emphasized. Prerequisites, ECON 2313 and 2323. This course can be counted as an Economics elective. This course is cross listed as IB 4103. Fall.

**ECON 4143. Export Policy and Procedures** Provides the rationale for exports and provides training on the skills for managing an export business. Coverage includes export promotion and incentives, lines and letters of credit, foreign exchange issues, international trade logistics, export documentation, and security and regulatory issues. Prerequisites, Completion of 60 hours. Cross-listed as IB 4143. Spring.

**ECON 4303. Economics of Sports** Applies microeconomic theory to the sports industry. The course includes discussions of the economics of professional and intercollegiate athletics, applying the concepts of the collective bargaining, cartel behavior, game theory, antitrust issues, and public finance. Prerequisite, ECON 2323. Fall.

**AFTER**

**Economics (ECON)**

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**ECON 2323. Principles of Microeconomics** Principles of resource allocation, supply and demand, consumer behavior, costs of production, the competitive model, oligopoly, and factor markets. Fall, Spring, Summer. (ACTS#: ECON 2203)

**ECON 2333. Economic Issues and Concepts** Designed to give the student a basic under­standing of our economic system. Basic economic concepts will be explored and contemporary economic problems and issues will be examined in light of the concepts learned. Fall, Spring. 471

**ECON 3113. Applied Econometrics** Survey of techniques used for the modeling and measurement of quantitative relationships among key economic and business variables, using a current, platform independent computer software package. Prerequisite: ECON 2113 or STAT 3233. Spring.

**ECON 3313. Microeconomic Analysis** Designed to develop an analytical framework for the study of the determination of relative prices and the allocation of resources in a market economy. The course will cover consumer choice and demand, resource utilization and the theory of the firm, competitive market equilibrium and resource allocation, and noncompetitive market structures. Prerequisites, ECON 2313 and 2323. Fall.

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**ECON 4103. International Trade** Economic theory and history of international trade. Topics such as comparative advantage, the effect of protectionism and determination of exchange rates will be emphasized. Prerequisites, ECON 2313 and 2323. This course can be counted as an Economics elective. This course is cross listed as IB 4103. Fall.

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