

## Term Information

Effective Term Autumn 2018

## General Information

Course Bulletin Listing/Subject Area Economics  
Fiscal Unit/Academic Org Economics - D0722  
College/Academic Group Arts and Sciences  
Level/Career Undergraduate  
Course Number/Catalog 4831  
Course Title Sports Data Analytics and Economics Analysis  
Transcript Abbreviation SptsData&EconAna  
Course Description An introduction to basic data analysis methods used by economists to explain economic reasoning in the sport industry and associated markets.  
Semester Credit Hours/Units Fixed: 3

## Offering Information

Length Of Course 14 Week, 12 Week, 8 Week, 7 Week, 6 Week, 4 Week  
Flexibly Scheduled Course Never  
Does any section of this course have a distance education component? No  
Grading Basis Letter Grade  
Repeatable No  
Course Components Lecture  
Grade Roster Component Lecture  
Credit Available by Exam No  
Admission Condition Course No  
Off Campus Never  
Campus of Offering Columbus

## Prerequisites and Exclusions

Prerequisites/Corequisites Econ 2001.01, 2001.02, 2001.03H or AEDE 2001 or 2001H  
Exclusions  
Electronically Enforced Yes

## Cross-Listings

Cross-Listings

## Subject/CIP Code

Subject/CIP Code 45.0601  
Subsidy Level Baccalaureate Course  
Intended Rank Freshman, Sophomore, Junior, Senior, Masters, Doctoral, Professional

## Requirement/Elective Designation

The course is an elective (for this or other units) or is a service course for other units

## Course Details

### Course goals or learning objectives/outcomes

- Understand applications of sports data and interpretation of statistical results from an economic prospective.  
Understand the value of player position, team-building and impacts on revenue.

### Content Topic List

- Describing and summarizing sports data
- Frequency distributions and measuring variation
- Probability distributions and expected values and conditional probabilities
- Covariance, corelation, and application of correlation
- Univariate regression and dummy variables
- Evaluation of work productivity
- Revenue streams

### Sought Concurrence

Yes

## Attachments

- December 2017 Econ 4831 Syllabus.pdf: Econ4831 Syllabus  
*(Syllabus. Owner: Ramirez,Ana G)*
- Sports Analytics Course Proposal-2RevLD11-17-17.docx: Econ 4831 Proposal  
*(Other Supporting Documentation. Owner: Ramirez,Ana G)*
- EHE Human Sci-Concurrence\_Form\_Econ 4831.pdf: EHE Human Sci Concurrence  
*(Concurrence. Owner: Ramirez,Ana G)*
- PolSci Fwd\_ Econ 4831 concurrence request.pdf: PoliSci Concurrence  
*(Concurrence. Owner: Ramirez,Ana G)*
- IntlstdsFwd\_ Econ 4831 concurrence request.pdf: Intlstds Concurrence  
*(Concurrence. Owner: Ramirez,Ana G)*
- FCOB Fwd\_ Econ 4831 concurrence request.pdf: FCOB Concurrence  
*(Concurrence. Owner: Ramirez,Ana G)*
- Sociology FW\_ Econ 4831 concurrence request.pdf: Sociol Concurrence  
*(Concurrence. Owner: Ramirez,Ana G)*
- AEDE Concurrence\_Form\_Econ 4831.pdf: AEDE Concurrence  
*(Concurrence. Owner: Ramirez,Ana G)*
- GlennCollegeFwd\_ Econ 4831 concurrence request.pdf: GlennCollege Concurrence  
*(Concurrence. Owner: Ramirez,Ana G)*
- Econ 4831 Concurrence.docx: Econ 4831 Concurrence List  
*(List of Depts Concurrence Requested From. Owner: Ramirez,Ana G)*
- EHE Human Sci deptFW\_ Econ 4831 concurrence request.pdf: EHE Response to Concurrence  
*(Concurrence. Owner: Ramirez,Ana G)*
- Curriculum Map Update January 2018.xlsx: Econ Curriculum Map Jan-2018  
*(Other Supporting Documentation. Owner: Ramirez,Ana G)*

**Comments**

**Workflow Information**

Status	User(s)	Date/Time	Step
Submitted	Ramirez,Ana G	01/04/2018 12:32 PM	Submitted for Approval
Approved	Logan,Trevon D'Marcus	01/04/2018 12:41 PM	Unit Approval
Approved	Haddad,Deborah Moore	01/04/2018 03:02 PM	College Approval
Pending Approval	Nolen,Dawn Vankeerbergen,Bernadette Chantal Oldroyd,Shelby Quinn Hanlin,Deborah Kay Jenkins,Mary Ellen Bigler	01/04/2018 03:02 PM	ASCCAO Approval

Sports Data Analytics  
and Economic Analysis  
Fall 2018  
Course Time: W/F 11:10-12:30  
Course Location: TBA

Instructor: **Dr. Ryan Ruddy, PhD**  
email address: ruddy.19@osu.edu  
Office Location: 303 Arps  
Office Hours:

## 1 Course Description

Over the past 40 years economists have used their tools in more and more fields. Economic models are used to predict behavior based on choices and data is used to test those models. Very few industries have both the well structured choices and the abundance of data which is available in professional sports. Modern professional sports offers a unique situation in which worker productivity data, salaries, sales, and revenue are all publicly available and easy to find. Students in this course will learn how to analyze choices by both players and coaches on the field and team owners and personnel off the field. These techniques can be used to evaluate worker productivity, revenue streams, and to address both private market and public policy decisions.

## 2 Course Materials

**Textbook:** *Analytic Methods in Sports: Using Mathematics and Statistics to Understand Data from Baseball, Football, Basketball, and Other Sports* by Thomas A. Severini

## 3 Course Requirements and Grades

- **Homework 20%** There will be 6 total homework assignments. Some assignments will require basic knowledge of spreadsheet software, such as excel. The economics department has a computer lab available, but space is limited. Do not wait until the last day to start the homework assignments. You are encouraged to work together on assignments, but must turn in your own assignment, in your own words. Verbatim copying is considered cheating. All assignments are expected to look professional. **There are no late assignments accepted.** The lowest homework score will be dropped.
- **Midterm Exams 40%** There will be two mid-semester exams on \_\_\_\_ and \_\_\_\_\_. Each will constitute 20% of the final grade. Midterm exams are not cumulative.
- **Project 10%** There is a final project due **Tuesday, November 20**. Students are expected to submit an original manuscript utilizing the methods taught in this course. Step stones of the final project will be included in homework assignments.
- **Final Exam 30%** There is a cumulative final exam on \_\_\_\_\_

## Letter Grade Distribution:

>= 93	A	73 - 76	C
90 - 92	A-	70 - 72	C-
87 - 89	B+	67 - 69	D+
83 - 86	B	63 - 66	D
80 - 82	B-	60 - 62	D-
77 - 79	C+	<= 59	F

## 4 Sports and Society Initiative

Students are strongly encouraged to participate in events sponsored by the Ohio State sports and society initiative. Students will be required to attend an SSI sponsored event and write a reflection paper for a homework. Throughout the semester, we may have guest lecturers from SSI faculty attend the class. Students will also be encouraged to present their projects to the SSI club.

## 5 Help with coursework:

Short questions can always be answered by email. I guarantee all emails received prior to 5:00 pm will be answered that day. If you are struggling, come to office hours immediately. If you have a schedule conflict that prevents you from attending any of the office hours, arrangements may be made to meet at alternate times.

## 6 Academic Integrity:

Cheating will not be tolerated. Any incident of academic misconduct will be reported all consequences pursuant to the Ohio State University code of conduct will be pursued. Academic misconduct is described in the code of conduct as follows:<sup>1</sup>

Academic misconduct: Any activity that tends to compromise the academic integrity of the university or subvert the educational process. Examples of academic misconduct include, but are not limited to:

1. Violation of course rules as contained in the course syllabus or other information provided to the student
2. Knowingly providing or receiving information during examinations such as course examinations and candidacy examinations; or the possession and/or use of unauthorized materials during those examinations
3. Knowingly providing or using unauthorized assistance in the laboratory, on field work, in scholarship or on a course assignment;
4. Submitting plagiarized work for an academic requirement. Plagiarism is the representation of another's work or ideas as one's own; it includes the unacknowledged word-for-word

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<sup>1</sup><http://studentaffairs.osu.edu/csc/>

use and/or paraphrasing of another person's work, and/or the inappropriate unacknowledged use of another person's ideas

5. Submitting substantially the same work to satisfy requirements for one course or academic requirement that has been submitted in satisfaction of requirements for another course or academic requirement without permission of the instructor of the course for which the work is being submitted or supervising authority for the academic requirement
6. Falsification, fabrication, or dishonesty in creating or reporting laboratory results, research results, and/or any other assignments
7. Serving as, or enlisting the assistance of, a substitute for a student in any graded assignments
8. Alteration of grades or marks by the student in an effort to change the earned grade or credit
9. Alteration of academically related university forms or records, or unauthorized use of those forms or records
10. Engaging in activities that unfairly place other students at a disadvantage, such as taking, hiding or altering resource material, or manipulating a grading system
11. Violation of program regulations as established by departmental committees and made available to students.

## **7 Disability Services:**

The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. SLDS contact information: [slds@osu.edu](mailto:slds@osu.edu); 614-292-3307; [www.slds.osu.edu](http://www.slds.osu.edu); 098 Baker Hall, 113 W. 12th Avenue.

# Readings and Topics List

This calendar is a rough outline of topics to be covered and is subject to change. Reading refers to Chapters in the Severini textbook.

Week	Content
Week 1	<ul style="list-style-type: none"><li>• Introduction and Course Overview</li><li>• Reading Assignment: Chapter 1</li></ul>
Week 2	<ul style="list-style-type: none"><li>• Describing and Summarizing Sports Data</li><li>• Reading assignment: 2.1-2.2</li></ul>
Week 3	<ul style="list-style-type: none"><li>• Frequency distributions and measuring variation</li><li>• Homework 1 Due</li><li>• Reading assignment: 2.3-2.7</li></ul>
Week 4	<ul style="list-style-type: none"><li>• Probability distributions</li><li>• Reading assignment: 3.1-3.4</li></ul>
Week 5	<ul style="list-style-type: none"><li>• Expected Values and conditional probabilities</li><li>• Homework 2 Due</li><li>• Reading assignment: 3.5-3.9</li></ul>
Week 6	<ul style="list-style-type: none"><li>• Exam I</li></ul>
Week 7	<ul style="list-style-type: none"><li>• Margin of Error, Sampling distributions</li><li>• Reading assignment: 4.1-4.5</li></ul>
Week 8	<ul style="list-style-type: none"><li>• Hypothesis testing</li><li>• Homework 3 due</li><li>• Reading assignment: 4.5-4.11</li></ul>
Week 9	<ul style="list-style-type: none"><li>• Covariance and Correlation</li><li>• Reading Assignment: 5.1-5.4</li></ul>
Week 10	<ul style="list-style-type: none"><li>• Application of Correlations</li><li>• Homework 4 Due</li><li>• Reading assignment: 5.5-5.15</li></ul>
Week 11	<ul style="list-style-type: none"><li>• Exam II</li></ul>
Week 12	<ul style="list-style-type: none"><li>• univariate regression</li><li>• Reading assignment: 6.1-6.4</li></ul>
Week 13	<ul style="list-style-type: none"><li>• Dummy variables</li><li>• Application of univariate regression</li><li>• Reading Assignment: 6.5-6.11</li></ul>
Week 14	<ul style="list-style-type: none"><li>• Multivariate regression</li><li>• Project Due</li><li>• Reading: 7.1-7.4</li></ul>
Week 15	<ul style="list-style-type: none"><li>• Applications of multivariate regression</li><li>• Homework 5 and 6 due</li></ul>
Final Exam	<ul style="list-style-type: none"><li>• Cumulative Final Exam</li></ul>

## 8 Homework Descriptions

All homeworks will require students to perform some calculations, present their results in a professional looking document, and describe how these results can be used to make decisions.

1. **Describing and Summarizing Data** This homework assignment will involve calculating basic summary statistics (mean, median, variance), presenting those results, and applying these statistics to in game decisions. (How many pitches can a manager expect from their starter?)
2. **Probability** This homework assignment will include creating probability distributions and conditional probabilities. Students will calculate basic probabilities and apply these to sports (i.e. comparing field goal kickers based on probabilities of making field goals at different distances)
3. **Statistical Methods and Hypothesis Testing** This homework will require students to test hypotheses and calculate margins of error (i.e. can we say with certainty that one player's performance is better than another's?)
4. **Correlations and Linear Relationships** This homework will require students to understand covariances, correlations, and univariate linear regression models. These models will be used to describe relationships between continuous variables. (i.e. What is the relationship between age and rushing yards?)
5. **Multivariate Linear Regression Models** This homework will require students to use several variables to predict an outcome. (How can we use data to predict a players value to a team?)
6. **SSI Huddle Reflection** During the semester the Sports and Society Initiative hosts several panel discussions on issues in sports. Students will be required to attend a panel and write a reflection paper. This will be due by the end of the semester.

## 9 Project Description

Students are expected to complete a project in which they pose a question and provide a possible answer using the analytic skills taught in class. Throughout the semester, step stones toward completing the project will be included in homeworks. The final project should be a professional looking manuscript with easily interpreted graphics and charts, which demonstrates an understanding of the concepts taught in class.

### **Outline of Paper and Grading Ruberic:**

The attached form will be used to grade papers. All listed items must be included to get points. **All tables and graphs must be understandable without reading the text.** Tables and figures must have a title and footnotes that describe what is in the table or figure. Figures and tables should be mentioned in the text.



1. \_\_\_\_\_ **Formatting 10pts:** The paper conforms to the formatting standards outlined in the assignment: Double spaced, font, margins, less than 8 pages, includes a title, and stapled.
2. \_\_\_\_\_ **Organization 10pts:**
  - Ideas are presented clearly, free of spelling and grammatical errors. Any references are cited. (-1 for each instance<sup>2</sup>)
  - The paper is not cut and pasted from homeworks and transitions well between sections. (5) (**Not a list of tasks.**<sup>3</sup>)
  - Each assigned section is included and labeled. (5)
3. \_\_\_\_\_ **Introduction 5pts:** The question to be analyzed is described. The importance of the question is discussed. The data source is mentioned. The empirical methodology is mentioned. A preview of results is given
4. \_\_\_\_\_ **Data Section 15pts:**
  - The source of the data is mentioned. There is a brief discussion of means, standard deviations, etc. (5)
  - A summary table with means and standard deviations which is referenced in the text. (5)
  - At least one graphic (histogram, scatter plot, etc.) which describes data and is referenced in the text.(5)
5. \_\_\_\_\_ **Empirical Methodology 15pts**
  - The question being analyzed is clearly described and the estimation strategy is explained. (5)
  - The choice of statistical methods is supported by theoretical reasoning and expected results are discussed. (5)
  - Potential concerns with empirical methodology are discussed (i.e. sample selection, omitted variables, etc). (5)
6. \_\_\_\_\_ **Results 30pts**
  - Results table. (7)
  - Interpretation of results (8)
  - Hypothesis testing: perform a t-test or another statistical test used in class (5)
  - Discuss how your results can be applied to decision making (5)
  - Discuss the consistency of your results with your expectations. (5)
7. \_\_\_\_\_ **Conclusion 5pts** The conclusion summarizes results and the significance of those results.
8. \_\_\_\_\_ **Relative Quality 10 pts** How does your paper compare to the rest of the class?

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<sup>2</sup>Up to 20 points can be deducted

<sup>3</sup>If your paper is just a list of tasks and does not resemble a research paper, you will be deducted 20 points.

## **Sports Data Analytics and Economics Analysis (Econ 4831)**

### **New Course Proposal**

#### **Rationale**

The Department of Economics is proposing a Sports Data Analytics and Economics Analysis course (Econ 4831). Currently the department offers the Economics of Sports (4830) during autumn and spring semester. This course focuses on the economics of sports industry, sports teams and their strategic interaction in sport markets. It is the only course in the Econ curriculum that delves into the details of the sports industry from an economic perspective.

Econ 4831 would function as a companion course to Econ 4830 providing an introduction to basic data analysis methods used by economists to explain economic reasoning in the sport industry and associated markets. It is intended to enrich the curriculum for students who may be considering the sports industry or related fields for possible careers.

#### **Course objectives**

Econ 4831 is designed to develop student skills such as summarizing data, understanding probability distributions, testing hypothesis, understanding correlation and linear relationships in sports data, and to expose students to multivariate linear regression models. As a course concentrating on data analysis, this new course would provide students the necessary background and methodology to answer key questions in sports analysis. It is oriented toward the application of data analysis of markets and the interpretation of statistical results from an economic perspective. Students having learned basic economics concepts introduced in the principles of microeconomic (Econ 2001) would develop skills and learn the tools needed to evaluate the specialized topics and issues encountered Econ 4830 from an economic perspective.

#### **Relationship to other Courses/Curricula**

As an AU18 course, the proposed offering will expand on basic economic theory and develop the methods and techniques for analyzing the sports world with more depth. Econ 4830 is a high enrollment course for the department averaging approximately 120 students per semester. The majority of the students enrolling in Econ 4830, however, are not Econ majors. Econ majors compose about third of the enrollments in a semester. The largest number of students in Econ 4830 are from the Fisher College of Business (FCOB). Table 1 shows the total student population and the subtotals for Econ majors (BA and BS) and FCOB majors. BUSMGT

4242 is a course offered in FCOB. BUSMGT 4242 has enrollments considerably less than the number of students completing Econ 4830 and has a focus in business applications, which is different from the economics principles applications that will be the focus of Econ 4830. In SP17, BUSMGT 4242 had total enrollment of 19 students; 14 were FCOB majors.

Table 1.

<b>Semester</b>	<b>Enrollment</b>	<b>Econ Majors</b>	<b>FCOB Majors</b>
AU16	101	26	59
SP17	143	46	63
AU17	126	39	63

The target population for Econ 4831 would be students pursuing degrees in economics, data analysis, communications or similar majors, where sports data is used to explain, not only to market behavior, but also social and cultural phenomena created by the sports industry in U.S. and internationally.

**From:** [Logan, Trevon](#)  
**To:** [Ramirez, Ana](#)  
**Subject:** Fwd: Econ 4831 concurrence request  
**Date:** Saturday, November 25, 2017 4:50:21 PM

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**Trevon D. Logan, Ph.D.**

Hazel C. Youngberg Trustees Distinguished Professor  
College of Arts and Sciences Department of Economics  
410 Arps Hall | [1945 N. High Street Columbus, OH 43210](#)  
[614-292-0762](#) Office | [614-292-3906](#) Fax  
[logan.155@osu.edu](mailto:logan.155@osu.edu) [osu.edu](#)

Find my book at:

[www.cambridge.org/9781107569577](http://www.cambridge.org/9781107569577)

Sent from my iPhone

Begin forwarded message:

**From:** "Herrmann, Richard" <[herrmann.1@osu.edu](mailto:herrmann.1@osu.edu)>  
**Date:** November 25, 2017 at 3:37:50 PM CST  
**To:** "Logan, Trevon" <[logan.155@osu.edu](mailto:logan.155@osu.edu)>  
**Subject:** **Re: Econ 4831 concurrence request**

Dear Trevon,

The Political Science department concurs on your proposal for Econ 4831. This looks like a valuable addition to the curricular options available to students at Ohio State.

Sincerely,

Rick

Richard K. Herrmann  
Professor and Chair  
Department of Political Science  
Interim Director, The Mershon Center for International Security Studies  
The Ohio State University

On Nov 21, 2017, at 1:16 PM, Logan, Trevon <[logan.155@osu.edu](mailto:logan.155@osu.edu)> wrote:

Hello,

We would like to solicit your concurrence on a new undergraduate course Sports Data Analytics and Economics Analysis Econ 4831 (3 credit hours).

This course would be a companion course to Sports Economics (Econ 4830) and become part of our applied microeconomics undergraduate offerings. We expect that the course will serve the demand our students who have an interest in the economic aspects of sport data analysis. The prerequisites for this course are principles of microeconomics or principle of macroeconomics sequence (2001 or 2002). There is one exclusion: Students in the Fisher College of Business could **not** substitute Econ 4831 for Business Sports Analytics course (BUSMGT 4242) and cannot receive credit for both.

This course is specifically tailored to student who have taken or plan to take Econ 4830. Attached, I provide both the concurrence form and the example syllabi for the courses. Additional details are provided in the attached rationale for the course for you to review.

I hope that you will be able to extend your concurrence for the course. Please let me know if you have questions.

Happy Thanksgiving!

Sincerely,

<image002.png>

**Trevon D. Logan, Ph.D.**

Hazel C. Youngberg Trustees Distinguished Professor  
College of Arts and Sciences Department of Economics  
410 Arps Hall | 1945 N. High Street Columbus, OH 43210  
614-292-0762 Office | 614-292-3906 Fax

[logan.155@osu.edu](mailto:logan.155@osu.edu) [osu.edu](http://osu.edu)

<Concurrence\_Form\_Econ 4831.pdf><Sports Analytics Course Proposal-2RevLD11-17-17.docx><Econ 4831 Syllabus revRR 11-17-17.pdf>

**From:** [Logan, Trevon](#)  
**To:** [Ramirez, Ana](#)  
**Subject:** Fwd: Econ 4831 concurrence request  
**Date:** Wednesday, November 22, 2017 5:47:25 PM  
**Attachments:** [image002.png](#)

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**Trevon D. Logan, Ph.D.**

Hazel C. Youngberg Trustees Distinguished Professor  
College of Arts and Sciences Department of Economics  
410 Arps Hall | [1945 N. High Street Columbus, OH 43210](#)  
[614-292-0762](#) Office | [614-292-3906](#) Fax  
[logan.155@osu.edu](mailto:logan.155@osu.edu) [osu.edu](http://osu.edu)

Find my book at:

[www.cambridge.org/9781107569577](http://www.cambridge.org/9781107569577)

Sent from my iPhone

Begin forwarded message:

**From:** "Mughan, Anthony" <[mughan.1@polisci.osu.edu](mailto:mughan.1@polisci.osu.edu)>  
**Date:** November 22, 2017 at 3:13:31 PM CST  
**To:** "Logan, Trevon" <[logan.155@osu.edu](mailto:logan.155@osu.edu)>  
**Subject:** RE: Econ 4831 concurrence request

Dear Trevon,

This course looks very good and timely. International Studies endorses it enthusiastically.

Tony

---

Anthony Mughan  
Professor, Political Science &  
Director, International Studies  
2140 Derby Hall  
The Ohio State University  
Columbus, OH 43210

*Phone:* (614) 292-9657  
*Fax:* (614) 688-3020  
*E-mail:* [mughan.1@osu.edu](mailto:mughan.1@osu.edu)

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**From:** Logan, Trevon  
**Sent:** Tuesday, November 21, 2017 1:16 PM  
**To:** Herrmann, Richard; Martin, Andrew; Buchmann, Claudia; Haab, Timothy; Roe, Brian; Bruno, John; Mughan, Anthony; Foster, Karlene; Greenbaum, Robert; Brown, Trevor; West, Patricia; O'Neill, Jill; Hans, Christopher; Lee, Yoonkyung; Turner, Brian

**Cc:** Ramirez, Ana; Ruddy, Ryan  
**Subject:** Econ 4831 concurrence request

Hello,

We would like to solicit your concurrence on a new undergraduate course Sports Data Analytics and Economics Analysis Econ 4831 (3 credit hours).

This course would be a companion course to Sports Economics (Econ 4830) and become part of our applied microeconomics undergraduate offerings. We expect that the course will serve the demand our students who have an interest in the economic aspects of sport data analysis. The prerequisites for this course are our principles of microeconomics or principle of macroeconomics sequence (2001 or 2002). There is one exclusion: Students in the Fisher College of Business could **not** substitute Econ 4831 for Business Sports Analytics course (BUSMGT 4242) and cannot receive credit for both.

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I hope that you will be able to extend your concurrence for the course. Please let me know if you have questions.

Happy Thanksgiving!

Sincerely,



**Trevon D. Logan, Ph.D.**

Hazel C. Youngberg Trustees Distinguished Professor  
College of Arts and Sciences Department of Economics  
410 Arps Hall | 1945 N. High Street Columbus, OH 43210  
614-292-0762 Office | 614-292-3906 Fax  
[logan.155@osu.edu](mailto:logan.155@osu.edu) [osu.edu](http://osu.edu)

**From:** [Logan, Trevon](#)  
**To:** [Ramirez, Ana](#)  
**Subject:** Fwd: Econ 4831 concurrence request  
**Date:** Wednesday, November 22, 2017 2:37:44 PM  
**Attachments:** [image003.gif](#)  
[image004.jpg](#)  
[image005.png](#)  
[image006.png](#)

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**Trevon D. Logan, Ph.D.**

Hazel C. Youngberg Trustees Distinguished Professor  
College of Arts and Sciences  
Department of Economics  
410 Arps Hall | [1945 N. High Street Columbus, OH 43210](#)  
[614-292-0762](#) Office | [614-292-3906](#) Fax  
[logan.155@osu.edu](mailto:logan.155@osu.edu) [osu.edu](http://osu.edu)

Sent from my iPad

Begin forwarded message:

**From:** "Bendoly, Elliot" <[bendoly.2@osu.edu](mailto:bendoly.2@osu.edu)>  
**Date:** November 22, 2017 at 1:28:45 PM CST  
**To:** "Logan, Trevon" <[logan.155@osu.edu](mailto:logan.155@osu.edu)>  
**Cc:** "O'Neill, Jill" <[oneill.139@osu.edu](mailto:oneill.139@osu.edu)>  
**Subject:** **RE: Econ 4831 concurrence request**

Trevon – We can offer concurrence. Also, can you please remove Pat West's name from your email list, and insert mine?

Thanks  
Elliot

Professor Elliot Bendoly, PhD  
Associate Dean of Undergraduate Students and Programs  
& Fisher College of Business Distinguished Professor  
Management Sciences, The Ohio State University  
<https://u.osu.edu/bsbareources> [www.ma-vis.com](http://www.ma-vis.com)



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**From:** O'Neill, Jill  
**Sent:** Tuesday, November 21, 2017 2:49 PM  
**To:** Bendoly, Elliot <[bendoly.2@osu.edu](mailto:bendoly.2@osu.edu)>; Boyer, Kenneth <[boyer.9@osu.edu](mailto:boyer.9@osu.edu)>  
**Subject:** FW: Econ 4831 concurrence request

Hi Elliot,



This was all sent to Pat. Please let me know if questions.

Jill

**Jill O'Neill**

**The Ohio State University**

**Fisher College of Business**

[oneill.139@osu.edu](mailto:oneill.139@osu.edu) [fisher.osu.edu](http://fisher.osu.edu)



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**From:** Logan, Trevon

**Sent:** Tuesday, November 21, 2017 1:17 PM

**To:** Herrmann, Richard <[herrmann.1@osu.edu](mailto:herrmann.1@osu.edu)>; Martin, Andrew <[martin.1026@osu.edu](mailto:martin.1026@osu.edu)>; Buchmann, Claudia <[buchmann.4@osu.edu](mailto:buchmann.4@osu.edu)>; Haab, Timothy <[haab.1@osu.edu](mailto:haab.1@osu.edu)>; Roe, Brian <[roe.30@osu.edu](mailto:roe.30@osu.edu)>; Bruno, John <[bruno.1@osu.edu](mailto:bruno.1@osu.edu)>; Mughan, Anthony <[mughan.1@polisci.osu.edu](mailto:mughan.1@polisci.osu.edu)>; Foster, Karlene <[foster.24@osu.edu](mailto:foster.24@osu.edu)>; Greenbaum, Robert <[greenbaum.3@osu.edu](mailto:greenbaum.3@osu.edu)>; Brown, Trevor <[brown.2296@osu.edu](mailto:brown.2296@osu.edu)>; West, Patricia <[west.284@osu.edu](mailto:west.284@osu.edu)>; O'Neill, Jill <[oneill.139@osu.edu](mailto:oneill.139@osu.edu)>; Hans, Christopher <[hans@stat.osu.edu](mailto:hans@stat.osu.edu)>; Lee, Yoonkyung <[yklee@stat.osu.edu](mailto:yklee@stat.osu.edu)>; Turner, Brian <[turner.409@osu.edu](mailto:turner.409@osu.edu)>

**Cc:** Ramirez, Ana <[ramirez.159@osu.edu](mailto:ramirez.159@osu.edu)>; Ruddy, Ryan <[ruddy.19@osu.edu](mailto:ruddy.19@osu.edu)>

**Subject:** Econ 4831 concurrence request

Hello,

We would like to solicit your concurrence on a new undergraduate course Sports Data Analytics and Economics Analysis Econ 4831 (3 credit hours).

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I hope that you will be able to extend your concurrence for the course. Please let me know if you have questions.

Happy Thanksgiving!

Sincerely,



**Trevon D. Logan, Ph.D.**

Hazel C. Youngberg Trustees Distinguished Professor  
**College of Arts and Sciences** Department of Economics  
410 Arps Hall | 1945 N. High Street Columbus, OH 43210  
614-292-0762 Office | 614-292-3906 Fax  
[logan.155@osu.edu](mailto:logan.155@osu.edu) [osu.edu](http://osu.edu)

**From:** [Logan, Trevon](#)  
**To:** [Ramirez, Ana](#)  
**Subject:** FW: Econ 4831 concurrence request  
**Date:** Tuesday, November 21, 2017 1:49:58 PM  
**Attachments:** [image001.png](#)

---

**From:** Buchmann, Claudia  
**Sent:** Tuesday, November 21, 2017 1:49 PM  
**To:** Logan, Trevon <[logan.155@osu.edu](mailto:logan.155@osu.edu)>  
**Cc:** Martin, Andrew <[martin.1026@osu.edu](mailto:martin.1026@osu.edu)>  
**Subject:** Re: Econ 4831 concurrence request

Hi Trevon:

Sociology concurs.

On Nov 21, 2017, at 1:16 PM, Logan, Trevon <[logan.155@osu.edu](mailto:logan.155@osu.edu)> wrote:

Hello,

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Happy Thanksgiving!

Sincerely,

<image002.png>

**Trevon D. Logan, Ph.D.**

Hazel C. Youngberg Trustees Distinguished Professor  
**College of Arts and Sciences** Department of Economics  
410 Arps Hall | 1945 N. High Street Columbus, OH 43210  
614-292-0762 Office | 614-292-3906 Fax  
[logan.155@osu.edu](mailto:logan.155@osu.edu) [osu.edu](http://osu.edu)

<Concurrence\_Form\_Econ 4831.pdf><Sports Analytics Course Proposal-  
2RevLD11-17-17.docx><Econ 4831 Syllabus revRR 11-17-17.pdf>

Claudia Buchmann  
Professor & Chair  
Department of Sociology  
(614) 292-3959



**From:** [Logan, Trevon](#)  
**To:** [Ramirez, Ana](#)  
**Subject:** Fwd: Econ 4831 concurrence request  
**Date:** Tuesday, November 21, 2017 4:56:01 PM  
**Attachments:** [image001.png](#)  
[ATT00001.htm](#)  
[Concurrence Form Econ 4831.pdf](#)  
[ATT00002.htm](#)

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**Trevon D. Logan, Ph.D.**

Hazel C. Youngberg Trustees Distinguished Professor  
College of Arts and Sciences Department of Economics  
410 Arps Hall | [1945 N. High Street Columbus, OH 43210](#)  
[614-292-0762](#) Office | [614-292-3906](#) Fax  
[logan.155@osu.edu](mailto:logan.155@osu.edu) [osu.edu](#)

Find my book at:  
[www.cambridge.org/9781107569577](http://www.cambridge.org/9781107569577)

Sent from my iPhone

Begin forwarded message:

**From:** "Greenbaum, Robert" <[greenbaum.3@osu.edu](mailto:greenbaum.3@osu.edu)>  
**Date:** November 21, 2017 at 3:40:57 PM EST  
**To:** "Logan, Trevon" <[logan.155@osu.edu](mailto:logan.155@osu.edu)>  
**Cc:** "Brown, Trevor" <[brown.2296@osu.edu](mailto:brown.2296@osu.edu)>, "Hallihan, Kathleen" <[hallihan.3@osu.edu](mailto:hallihan.3@osu.edu)>, "Lavertu, Stephane" <[lavertu.1@osu.edu](mailto:lavertu.1@osu.edu)>, "Adams, Christopher" <[adams.615@osu.edu](mailto:adams.615@osu.edu)>  
**Subject:** RE: Econ 4831 concurrence request

Hi Trevon,

I'll spare you the jokes about the Browns' front office needing this class that were circulated here when reviewing the syllabus.

Please find attached our concurrence,

Rob

---

**From:** Logan, Trevon  
**Sent:** Tuesday, November 21, 2017 1:17 PM  
**To:** Herrmann, Richard <[herrmann.1@osu.edu](mailto:herrmann.1@osu.edu)>; Martin, Andrew <[martin.1026@osu.edu](mailto:martin.1026@osu.edu)>; Buchmann, Claudia <[buchmann.4@osu.edu](mailto:buchmann.4@osu.edu)>; Haab, Timothy <[haab.1@osu.edu](mailto:haab.1@osu.edu)>; Roe, Brian <[roe.30@osu.edu](mailto:roe.30@osu.edu)>; Bruno, John <[bruno.1@osu.edu](mailto:bruno.1@osu.edu)>;

Mughan, Anthony <[mughan.1@polisci.osu.edu](mailto:mughan.1@polisci.osu.edu)>; Foster, Karlene <[foster.24@osu.edu](mailto:foster.24@osu.edu)>;  
Greenbaum, Robert <[greenbaum.3@osu.edu](mailto:greenbaum.3@osu.edu)>; Brown, Trevor  
<[brown.2296@osu.edu](mailto:brown.2296@osu.edu)>; West, Patricia <[west.284@osu.edu](mailto:west.284@osu.edu)>; O'Neill, Jill  
<[oneill.139@osu.edu](mailto:oneill.139@osu.edu)>; Hans, Christopher <[hans@stat.osu.edu](mailto:hans@stat.osu.edu)>; Lee, Yoonkyung  
<[yklee@stat.osu.edu](mailto:yklee@stat.osu.edu)>; Turner, Brian <[turner.409@osu.edu](mailto:turner.409@osu.edu)>

**Cc:** Ramirez, Ana <[ramirez.159@osu.edu](mailto:ramirez.159@osu.edu)>; Ruddy, Ryan <[ruddy.19@osu.edu](mailto:ruddy.19@osu.edu)>

**Subject:** Econ 4831 concurrence request

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Happy Thanksgiving!

Sincerely,

**Concurrence**

**Richard Herrmann (.1)**  
 Chair Political Science  
 College of Arts & Sciences  
[Herrmann.1@osu.edu](mailto:Herrmann.1@osu.edu)

**Concurrence**

**Claudia Buchmann (.4)**  
 Chair Sociology  
**Andrew Martin (.1026)**  
 Director of Undergraduate Studies Sociology  
[Martin.1026@osu.edu](mailto:Martin.1026@osu.edu)  
[Buchmann.4@osu.edu](mailto:Buchmann.4@osu.edu)

**Concurrence**

**Tim Haab (.1)**  
 Chair AEDE  
**Brian Roe (.30)**  
 Undergraduate Program Leader  
[Haab.1@osu.edu](mailto:Haab.1@osu.edu)  
[Roe.30@osu.edu](mailto:Roe.30@osu.edu)

**No response**

**John Bruno (.1)**  
 Chair Psychology  
 College of the Arts and Sciences  
[Bruno.1@osu.edu](mailto:Bruno.1@osu.edu)

**Concurrence**

**Tony Mughan (.1)**  
**Karlene Foster (.24)**  
 International Studies  
 College of Arts and Sciences  
[Mughan.1@osu.edu](mailto:Mughan.1@osu.edu)  
[Foster.24@osu.edu](mailto:Foster.24@osu.edu)

**Concurrence**

**Trever Brown (.2296)**  
 Dean of John Glenn College of Public Affairs  
**Robert Greenbaum (.3)**  
 Associate Dean for Curriculum  
 John Glenn College of Public Affairs  
[Greenbaum.3@osu.edu](mailto:Greenbaum.3@osu.edu)  
[Brown.2296@osu.edu](mailto:Brown.2296@osu.edu)

**Concurrence**

**Elliot Bendoly (.2)**

Associate Dean of Undergraduate Students and Program

**Jill O'Neill (.139)**  
 Director Administrative Services  
 FCOB  
[Bendoly.2@osu.edu](mailto:Bendoly.2@osu.edu)  
[Oneill.139@osu.edu](mailto:Oneill.139@osu.edu)

**Stats Curriculum Chair**

**Email 12/4/17**  
**Syllabus revision requested**  
**Neither concurrence nor non-concurrence**  
**Chris Hans (.11)**  
 Co-Director of the Data Analytics Major  
 Department of Statistics  
[Hans.11@osu.edu](mailto:Hans.11@osu.edu)  
**Yoon Lee (.2272)**  
 Chair of the Curriculum Committee  
[Lee.2272@osu.edu](mailto:Lee.2272@osu.edu)

**Concurrence**

**H. Eugene Folden (.1)**  
 Chair, Graduate and Undergraduate Studies  
 Associate Chair, Curriculum  
**Brian Turner (.409)**  
 College of Education and Human Ecology  
 Department of Human Science  
[Folden.1@osu.edu](mailto:Folden.1@osu.edu)  
[Turner.409@osu.edu](mailto:Turner.409@osu.edu)

**From:** Ramirez, Ana  
**To:** [Logan, Trevon](#); [Ruddy, Ryan](#)  
**Subject:** FW: Econ 4831 concurrence request  
**Date:** Monday, December 4, 2017 10:09:00 AM  
**Attachments:** [2510.01\\_Statistics In The Sports World\\_2011\\_01\\_06.doc](#)

---

Trevon,

Since Stats is not exactly giving concurrence----- “ We find that the current course content does not show connections to economics clearly, and the committee recommended that the connections to economics be clarified in the course objectives and syllabus.”---should the syllabus be revised again?

**Ana Ramirez**

Undergraduate Program Coordinator

**The Ohio State University**

**Department of Economics**

410E Arps Hall, 1945 N. High Street, Columbus, OH 43210-1172

614-292-6702 Office / 614-292-3906 Fax

[ramirez.159@osu.edu](mailto:ramirez.159@osu.edu) [osu.edu](http://osu.edu)

---

**From:** Logan, Trevon  
**Sent:** Friday, December 1, 2017 6:10 AM  
**To:** Ramirez, Ana <[ramirez.159@osu.edu](mailto:ramirez.159@osu.edu)>  
**Subject:** Fwd: Econ 4831 concurrence request

**Trevon D. Logan, Ph.D.**

Hazel C. Youngberg Trustees Distinguished Professor

College of Arts and Sciences Department of Economics

410 Arps Hall | [1945 N. High Street Columbus, OH 43210](#)

[614-292-0762](tel:614-292-0762) Office | [614-292-3906](tel:614-292-3906) Fax

[logan.155@osu.edu](mailto:logan.155@osu.edu) [osu.edu](http://osu.edu)

Find my book at:

[www.cambridge.org/9781107569577](http://www.cambridge.org/9781107569577)

Sent from my iPhone

Begin forwarded message:

**From:** "Lee, Yoonkyung" <[yklee@stat.osu.edu](mailto:yklee@stat.osu.edu)>  
**Date:** November 30, 2017 at 10:45:00 PM EST  
**To:** "Logan, Trevon" <[logan.155@osu.edu](mailto:logan.155@osu.edu)>  
**Subject:** RE: Econ 4831 concurrence request



Dear Professor Logan,

The curriculum committee in Statistics reviewed the course proposal and syllabus for Econ 4831: Sports Data Analytics and Economics Analysis. Although the course rationale seems to focus on connecting basic data analysis methods to economics of sports industry and associated markets, the topics list and the textbook suggest that the course is mainly on statistical methods for analysis of data drawn from various sports. We find that the current course content does not show connections to economics clearly, and the committee recommended that the connections to economics be clarified in the course objectives and syllabus.

For your information, we did have a similar course before, STAT 2510.01: Statistics in the Sports World. A copy of the syllabus is attached. Due to many GE Data Analysis courses that we have to cover, the course wasn't offered for many years after semester conversion and it has been placed in limbo in 2015 following the OAA rules.

We hope that you find our comments helpful in revising the course proposal. Thank you for giving us the opportunity to review the proposal.

Yoon

On behalf of the Curriculum Committee

--

Yoonkyung Lee  
Professor of Statistics  
Professor of Computer Science and Engineering (by courtesy)  
The Ohio State University

---

**From:** Logan, Trevon

**Sent:** Tuesday, November 21, 2017 1:16 PM

**To:** Herrmann, Richard; Martin, Andrew; Buchmann, Claudia; Haab, Timothy; Roe, Brian; Bruno, John; Mughan, Anthony; Foster, Karlene; Greenbaum, Robert; Brown, Trevor; West, Patricia; O'Neill, Jill; Hans, Christopher; Lee, Yoonkyung; Turner, Brian

**Cc:** Ramirez, Ana; Ruddy, Ryan

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