# http://www.ric.edu/webcommunications/images/SealWithText_Small_Black.pngUNDERGRADUATE CURRICULUM COMMITTEE (UCC)PROPOSAL FORM

## Cover page scroll over blue text to see further important [instructions](#instructions): [if not working select “COMMents on rollover” in your Word preferences under view] **please read these.**

**N.B.**

|  |  |  |
| --- | --- | --- |
| A.1. [Course or program](#Proposal) | **DaTA 345 Applied Linear Algebra to statistical Learning** |  |
| [Replacing](#Ifapplicable) | **MATH 345 Linear models for data science**  |  |
| A. 1b. Academic unit | **Faculty of Arts and Sciences**  |  |
| A.2. [Proposal type](#type) | **Course Revision**  |  |
| A.3. [Originator](#Originator) | **Leonardo Pinheiro****Stephanie Costa** | [Home department](#home_dept) | **Mathematical Sciences** |
| A.4. [Context and Rationale](#Rationale) Note: Must include additional information in smart tip for all [new programs](#type) | The purpose of this proposal is to rename MATH 345 Linear Models for Data Science as DATA 345 Applied Linear Algebra for Statistical LearningThis course was conceived to cover the applications of linear algebra to statistical learning. The current course name was selected, in an abundance of caution, to avoid any possible confusion with MATH 315 Linear Algebra which is a proof’s-based course for students in the Mathematics and Secondary Education Math Majors. After teaching the course twice, we have come to the conclusion that the initial fear of possible confusion was unfounded. The title “Linear Models in Data Science” does not accurately reflect the contents of the class and we would like to rectify the matter. The change of prefix from MATH to DATA is also relevant since the course is part of the core data science curriculum.Note: due the order and frequency with which this course is offered, the switch from MATH to DATA will have no negative consequence to current or future students as it pertains to Records and prerequisites. There is no need to use language such as “MATH 345 or DATA 345” in the catalog when referencing course requirements or prerequisites.  |
| A.5. [Student impact](#student_impact)=? | The change will better reflect the nature of the course. |
| A.6. [Impact on other programs](#impact)  | **None** |
| A.7. [Resource impact](#Resource) | [*Faculty PT & FT*](#faculty):  | **None** |
| [*Library*:](#library) | **None** |
| [*Technology*](#technology) | **None** |
| [*Facilities*](#facilities): | **None** |
| A.8. [Semester effective](#Semester_effective) | **Fall 2023** | A.9. [Rationale if sooner than next Fall](#Semester_effective) |  |
| A.10. INSTRUCTIONS FOR CATALOG COPY: Use the Word copy versions of the catalog sections found on the UCC Forms and Information page. Cut and paste into a single file **ALL the relevant pages from the college catalog that need to be changed.** Use tracked changes feature to show how the catalog will be revised as you type in the revisions. If totally new copy, indicate where it should go in the catalog. If making related proposals a single catalog copy that includes all changes is preferred. Send catalog copy as a separate single Word file along with this form. |
| A.11. List here (with the relevant urls), any RIC website pages that will need to be updated (to which your department does not have access) if this proposal is approved, with an explanation as to what needs to be revised: |
| A. 12 **Check to see if your proposal will impact any of our** [**transfer** **agreements,**](https://emailric-my.sharepoint.com/Users/Lpinheiro/Downloads/transfer%20agreements) **and if it does explain in what way. Please indicate clearly what will need to be updated.** |
| A. 13 Check the section that lists “Possible NECHE considerations” on the UCC Forms and Information page and if any apply, indicate what that might be here and contact Institutional Research for further guidance. |

B. [NEW OR REVISED COURSES](#delete_if)

|  | Old ([for revisions only](#Revisions))ONLY include information that is being revised, otherwise leave blank.  | NewExamples are provided within some of the boxes for guidance, delete just the examples that do not apply. |
| --- | --- | --- |
| B.1. [Course prefix and number](#cours_title)  | **MATH 345** | **DATA 345** |
| B.2. Cross listing number if any |  |  |
| B.3. [Course title](#title)  | **Linear Models for Data Science**  | **Applied Linear Algebra for Statistical Learning**  |
| B.4. [Course description](#description)  |  |  |
| B.5. [Prerequisite(s)](#prereqs) | **MATH 315 or both MATH 245 and MATH 212.** | **MATH 315 or both DATA 245 and MATH 212.** |
| B.6. [Offered](#Offered) |  |  |
| B.7. [Contact hours](#contacthours)  |  |  |
| B.8. [Credit hours](#credits) |  |  |
| B.9. [Justify differences if any](#differences) |  |
| B.10. [Grading system](#grading)  |  |  |
| B.11. [Instructional methods](#instr_methods) |  |  |
| B.11.a [Delivery Method](#instr_methods) |  |  |
| B.12. CATEGORIES 12. a. [How](#required) to be used |  |  |
|  12 b. Is this an Honors  course? | **NO** | **No** |
|  12. c. [General Education](#ge) N.B. Connections must include at  least 50% Standard Classroom instruction. | **NO** | **No** |
|  12. d. Writing in the  Discipline (WID) | **NO** | **No** |
| B.13. [How will student performance be evaluated?](#performance) |  |  |
| B.14 [Recommended class-size](#class_size" \o "Check appendix XVIII in the UCC Manual for Best Practices) |  |  |
| B.15. [Redundancy statement](#competing) |  |  |
| B. 16. Other changes, if any |  |

| B.17**.** [**Course learning outcomes**](#outcomes)**: List each one in a separate row** | [**Professional Org.Standard(s)**](#standards)**, if relevant** | [**How will each outcome be measured**](#measured)**?** |
| --- | --- | --- |
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## D. Signatures

##### D.1. Approvals: required from programs/departments/deans who originate the proposal. THESE may include multiple departments, e.g., for joint/interdisciplinary proposals.

| Name | Position/affiliation | [Signature](#_Signature" \o "Insert electronic signature, if available, in this column) | Date |
| --- | --- | --- | --- |
| Dr. Rebecca Sparks  | Chair of Mathematical Sciences  | \*Approved via email | 4/24/2023 |
| Dr. Earl Simson  | Dean of Arts and Sciences  | Earl Simson | 5/2/23 |

##### D.2. [Acknowledgements](#acknowledge): REQUIRED from OTHER PROGRAMS/DEPARTMENTS (and their relevant deans if not already included above) that are IMPACTED BY THE PROPOSAL. SIGNATURE DOES NOT INDICATE APPROVAL, ONLY AWARENESS THAT THE PROPOSAL IS BEING SUBMITTED. CONCERNS SHOULD BE BROUGHT TO THE UCC COMMITTEE MEETING FOR DISCUSSION; all faculty are welcome to attend.

| Name | Position/affiliation | [Signature](#Signature_2) | Date |
| --- | --- | --- | --- |
|  |  |  |  |
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|  |  |  | Tab to add rows |