



DO NOT TYPE IN THIS BOX

Bulletin # : _____

Academic Year : _____

FLORIDA INTERNATIONAL UNIVERSITY UNIVERSITY CURRICULUM COMMITTEE


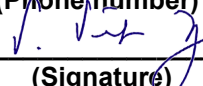
Proposal for a New Course

1. **School/College** Engineering and Computing
Div./Dept. in Which Taught School of Computing and Information Sciences
2. **CAP** 5 **C** 3 **CIP Code** (Leave this blank): _____
Alpha Prefix 1st Digit Last 3 Digits "C"-lec-lab "L"-Lab Cr. Hrs.
3. **Grading Method (select one):** Graded Pass/Fail
- 4a. **Course Title** Practical Data Science
- b. **Abbreviated course Title** (for computer class schedules, transcripts) Practical Data Science
LIMITED TO 25 Characters (including spaces)
5. **Statewide Course Numbering Subject Matter Area** CIS (Computing and Information Sciences)
6. **Catalog Description/Major Topics** (not to exceed 200 characters including spaces)
College of Medicine and College of Law: Attach description not exceeding 1,000 characters including spaces.

Topics will include: data collection and processing, data visualization and presentation, statistical model building using machine learning, and big data techniques for scaling these methods.
7. **Attach detailed syllabus course outline and course justification on separate page(s).**
8. **Prerequisite(s):** M.S. or Ph.D. standing or permission of the instructor
9. **Corequisite(s):** None. M.S. & Ph.D. in CS students may not take this course for their degrees
10. **Objective(s) of Course:**

Understand the principles and approaches of big data analytics, including the linguistic phenomena to be modelled, the formal methods in use, and the potential end applications.
11. **Does this course duplicate/overlap other courses at FIU?** No Yes
 If yes, please explain: _____
12. **What other closely related department(s) have been consulted about this course?**
Electrical Engineering, Economics, Business, Civil Engineering

PROPOSAL REQUESTED BY:

Faculty Contact	<u>Dong Chen</u> <small>(Type name)</small>	 <small>(Signature)</small>	<u>11 / 28 / 2018</u>
	<u>dochen@fiu.edu</u> <small>(Email address)</small>	<u>(305) 348-7983</u> <small>(Phone number)</small>	
Chairperson (Dept./Div.)	<u>Ram Iyengar</u> <small>(Type name)</small>	 <small>(Signature)</small>	<u>11 / 28 / 2018</u>
Chairperson (Curr. Comm.)	_____ <small>(Type name)</small>	_____ <small>(Signature)</small>	<u>11 / ____ / 2018</u>
College/School Dean	_____ <small>(Type name)</small>	_____ <small>(Signature)</small>	<u>____ / ____ / 2018</u>

Submit one original form. Attach one copy of the course syllabus containing: course description, objectives, learning outcomes, major topics and textbooks.