

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW COURSE PROPOSAL</b> <b>Undergraduate Programs</b>		UUPC Approval <u>11/13/17</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	<b>Department</b> Mathematical Sciences <b>College</b> Charles E. Schmidt College of Science <i>(To obtain a course number, contact erudolph@fau.edu)</i>		
<b>Prefix</b> CAP <b>Number</b> 3321	<i>(L = Lab Course; C = Combined Lecture/Lab; add if appropriate)</i> <b>Lab Code</b>	<b>Type of Course</b> Lecture	<b>Course Title</b> RI: Introduction to Data Science
<b>Credits</b> <i>(Review Provost Memorandum)</i> 3	<b>Grading</b> <i>(Select One Option)</i> <b>Regular</b> <input checked="" type="radio"/> <b>Pass/Fail</b> <input type="radio"/> <b>Sat/UnSat</b> <input type="radio"/>	<b>Course Description</b> <i>(Syllabus must be attached; Syllabus Checklist recommended; see Guidelines)</i> This research-intensive course will survey the foundational topics in data science. It covers the following topics: Data acquisition, data manipulation, data exploration and visualization, data analysis with statistics and machine learning, data at scale via working with big data. The course will use statistical software to work through real-world examples that illustrate these concepts. Concurrently, students learn some statistical and mathematical foundations that power the data scientific approach to problem solving.	
<b>Effective Date</b> <i>(TERM &amp; YEAR)</i> Fall 2018	<b>Prerequisites, with minimum grade*</b> MAD 2502 or COP 2220 with minimum grade C		<b>Corequisites</b>  <b>Registration Controls</b> <i>(Major, College, Level)</i>
*Default minimum passing grade is D-. Prereqs., Coreqs. & Reg. Controls are enforced for all sections of course			
<b>WAC/Gordon Rule Course</b> <input type="radio"/> Yes <input checked="" type="radio"/> No <small>WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to proposal. See <a href="#">WAC Guidelines</a>.</small>		<b>Intellectual Foundations Program (General Education) Requirement</b> <i>(Select One Option)</i> None <small>General Education criteria must be indicated in the syllabus and approval attached to the proposal. See <a href="#">GE Guidelines</a>.</small>	
<b>Minimum qualifications to teach course</b> PhD in Statistics or related fields			
<b>Faculty Contact/Email/Phone</b> Lianfen Qian, lqian@fau.edu, (561) 297-2486		<b>List/Attach comments from departments affected by new course</b>	
<b>Approved by</b> Department Chair <u>[Signature]</u> College Curriculum Chair <u>[Signature]</u> College Dean <u>[Signature]</u> UUPC Chair <u>[Signature]</u> Undergraduate Studies Dean <u>[Signature]</u> UFS President _____ Provost _____			<b>Date</b> <u>11-8-17</u> <u>11/12/17</u> <u>11/9/17</u> <u>11/13/17</u> <u>11/15/17</u>

Email this form and syllabus to [mjenning@fau.edu](mailto:mjenning@fau.edu) seven business days before the UUPC meeting.