

Social Data Analytics

*Bachelor of Science
(Revised Spring 2015)*

Social Data Analytics is an interdisciplinary major designed to prepare students for careers that make use of “big” data in order to tackle social and political problems. The major integrates courses in the social sciences with relevant ones in statistics, mathematics, information science, and computer science to develop the unique skill set necessary to analyze and contextualize data sources, to think critically about “big” data in relation to specific real world problems, and to derive and test hypotheses through application of data tools and techniques. In addition, SODA majors will gain practical experience working with data through a capstone project and participation in faculty research.

Admission to the major requires a grade of C or better in MATH 110/140, MATH 111/141, and CMPSC 122, and a grade of B or better in PLSC 309. These courses must be completed by the end of the semester during which admission to the major program is carried out.

Students must complete major requirements with a grade of “C” or better in order to graduate with a degree in Social Data Analytics.



Core Required Courses		Foundational and Advanced Political Science Courses	General Education Requirements
<p><u>Political Science</u> (Take all of the following)</p> <p><input type="checkbox"/> PLSC 010 (GS) <input type="checkbox"/> PLSC 1 (GS) <input type="checkbox"/> PLSC 309</p> <p><u>Math</u> (Take all of the following)</p> <p><input type="checkbox"/> MATH 110 OR 140 (GQ) <input type="checkbox"/> MATH 111 OR 141 (GQ) <input type="checkbox"/> MATH 220</p> <p><u>Social Data Analytics</u> (Take all of the following)</p> <p><input type="checkbox"/> SODA 308 <input type="checkbox"/> SODA 496 (6 cr.)</p> <p><u>Information Sciences and Technology</u> (Take all of the following)</p> <p><input type="checkbox"/> IST 210</p>	<p><u>Computer Science</u> (Take all of the following)</p> <p><input type="checkbox"/> CMPSC 121 <input type="checkbox"/> CMPSC 122 <input type="checkbox"/> CMPSC 221 <input type="checkbox"/> CMPSC 360</p> <p><u>Statistics</u> (Take all of the following)</p> <p><input type="checkbox"/> STAT 318 <input type="checkbox"/> STAT 380</p> <p><u>Data Science</u> (Take all of the following)</p> <p><input type="checkbox"/> DS 220 <input type="checkbox"/> DS 300 <input type="checkbox"/> DS 330</p>	<p><u>Foundational PLSC Courses</u> (Select 3 cr. from PLSC 3, 7, 14, or 17)</p> <p><input type="checkbox"/> PLSC _____</p> <p><u>Additional PLSC Courses</u> (Select 6 cr. of additional PLSC courses. 3 cr. must be at the 400-level)</p> <p><input type="checkbox"/> PLSC _____ <input type="checkbox"/> PLSC 4 _____</p> <p><u>Data Intensive</u> (Select 9 credits from PLSC 404, 429, 447, or 476. <i>Some PLSC 497 courses may also be approved as data intensive. Please speak with an academic adviser for details.</i>)</p> <p><input type="checkbox"/> PLSC 4 _____ <input type="checkbox"/> PLSC 4 _____ <input type="checkbox"/> PLSC 4 _____</p>	<p><u>Writing/Speaking Skills (GWS)</u> <input type="checkbox"/> ENGL 15 or 30 <input type="checkbox"/> CAS 100 <input type="checkbox"/> ENGL 202</p> <p><u>Quantification (GQ)</u> (6 credits) <input type="checkbox"/> MATH 110 or 140 (GQ) <input type="checkbox"/> MATH 111 or 141 (GQ)</p> <p><u>Natural Sciences (GN)</u> (9 credits) <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____</p> <p><u>Arts (GA)</u> (6 credits) <input type="checkbox"/> _____ <input type="checkbox"/> _____</p> <p><u>Humanities (GH)</u> (6 credits) <input type="checkbox"/> _____ <input type="checkbox"/> _____</p> <p><u>Social and Behavior Sciences (GS)</u> (6 credits) <input type="checkbox"/> PLSC 010 (GS) <input type="checkbox"/> PLSC 1 (GS)</p> <p><u>Health and Physical Activity (GHA)</u> (3 credits) <input type="checkbox"/> _____ <input type="checkbox"/> _____</p>
	Ethics Requirement	Advanced Analytics Courses	
	<p><u>Ethics and Technology</u> (Select 3 cr. from PHIL 106, 107, 233, 406, 407, or STS 101)</p> <p><input type="checkbox"/> _____</p>	<p><u>Advanced Analytics</u> (Select 9 credits from CMPSC 431, 448, 465, STAT 319, 440, 464, DS 320, 402, or 410).</p> <p><input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____</p>	

Total Credits: 120

Additional University requirements: Students must also complete one course from each: US Cultures, Writing Across the Curriculum, First Year Seminar, and International Cultures. * *

May double count to meet Gen Ed, major, B.A. Requirement, or as an elective.