1st Semester 2nd Semester **3rd Semester** 4th Semester 5th Semester 6th Semester 7th Semester 8th Semester or DS 435) CMPSC CMPSC DS DS 440' DS 220* -> DS 300* DS 330* 121/131* 340W* 122/132* (or IST 242) (or CMPSC 221) or IST 242) (for CMPSC 360) MATH MATH DS 320* DS 410* DS 435* Gen Ed Gen Ed Gen Ed 140* 141* (for STAT 318)-(or CMPSC 448) (for MATH 311W) STAT MATH First Year 318/ DS 310* Gen Ed Elective Seminar 220* 414/418 (for IST 230) (or CMPSC 465) ÍIST 230/ ENGL STAT Adv Adv Gen Ed DS 305* CMPSC 360/ 15* 184 Elective Elective MATH 311W Advanced Elective Pre-requisites DS 442 - CMPSC 221 and 465 (concurrent) STAT IST 442 - IST 110 Gen Ed Gen Ed DS 2003 Gen Ed Gen Ed SODA 308 - PLSC 309 (or ask adviser) 380* IST 445 - 6 cr honors coursework DS 420 - DS 220 and DS 310 (or STAT 200) DS 441 - C or better in MATH 141 and DS 220 and (or STAT 200) (IST 230 or CMPSC 360 or MATH 311W) DS 402 - DS 220 (or STAT 200) IST 494 - Research APP APP ENGL APP APP FOCUS (300-400) FOCUS (300-400) Gen Ed Gen Ed FOCUS FOCUS IST 202C/D* 495 **Diagram Key** Entrance to major (ETM) and other courses (*) require a C or Application focus courses may have prerequsites that must be factored **Pre-requisite** higher for the major into academic planning Pre-requisite with C or better -> **Enforced concurrent** This flowchart has been designed to complement the current Suggested Academic Plan found at bulletins.psu.edu and should be used \diamond **Recommended preparation** with student What-If and/or Academic Requirement Reports in Lionpath

Curriculum Flowchart Data Science - Applied Data Sciences Option (*DATSC_BS-APPDS*) - 2024-25