Data Science 4-Year Plan

This is an ideal, four-year plan for an incoming FTIC student to UCF (who has not completed any AP or dual-enrollment coursework).

Fall Semester Year 1	
ENC 1101 – Composition I	3
MAC 2311C – Calculus I	4
GEP Cult/Hist Fnd., Area 1	3
SPC 1608 – Fund. Oral Comm.	3
GEP Social Fnd., Area 1	3
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Spring Semester Year 1	
ENC 1102 – Composition II	3
MAC 2312 – Calculus II	4
GEP Cult/Hist Fnd., Area 2	3
GEP Cult/Hist Fnd., Area 3	3
GEP Social Fnd., Area 2	3
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Fall Semester Year 2	
COP 3223 – Intro. Prog. with C	3
MAC 2313 – Calculus III	4
PHY 2048 – Physics I	4
STA 2023 – Stat. Methods I	3
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Spring Semester Year 2	
COP 3502C – Comp. Sci. I	3
MAS 3105 – Matrix & Lin. Alg	4
*MHF 3302 – Logic & Proof	3
STA 4163 – Stat. Methods II	3
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Fall Semester Year 3	
BSC 2010 – Biology I	4
ISC 4241 - Data Sci. I	3
◦MAP 4112 – Math Fnd. ML	3
STA 4164 – Stat. Methods III	3
STA 4364 – Stat. Fnd. DS/AI I	3
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Spring Semester Year 3	
ISC 4551 – Data Gr. & Vis.	3
ISC 4242 – Data Sci. II	3
STA 4365 – Stat. Fnd. DS/AI II	3
CIS 4340 – Data Mgmt. Tech.	3
┼Elective I	3
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Fall Semester Year 4	
ISC 4311 Predictive Analy.	3
COP 4283 – Data Sci. Prog.	3
STA 4724 – Big Data Methods	3
┼Elective II	3
┼Elective III	3
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Spring Semester Year 4	
ISC 4323C Praxis for DS	3
┼Elective IV	3
┼Elective V	3
┼Elective VI	3
┼Elective VII	3
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*Students may instead take COT 3100 (Introduction to Discrete Structures)
◦Students may instead take CAP 4611 (Algorithms for Machine Learning) or ESI 4312 (Deterministic Methods for Operations Research), or STA 4241 (Statistical Learning)
┼Students are encouraged to use as electives 3000- or 4000-level courses from the participating departments (Math, Statistics, IEMS, Computer Science), but that is not necessary.