

**CLASS OFFERINGS PROMISED FOR THE BS in Data Science**

Prefix	Num	Combined	Short Title	Credit	Teaching	Offered in	Prerequisite	Logic1	Prerequisite	Logic2	Prerequisite	Logic3	Prerequisite	Logic4	Prerequisite	with-co	Corequisite	Prereq Chain Len
CAP	4611	CAP 4611	Alg. For Mach. Learning	3	CS	spring	COP 3502C	and	STA 2023									2
CIS	4340	CIS 4340	Data Mgmt. Tech.	3	CS	spring	COP 3502C											2
COP	3223C	COP 3223C	Intro. to Progr. with C		CS	all												0
COP	3502C	COP 3502C	Comp. Sci. I	3	CS	all	COP 3223C	or	EGN 3211									1
COP	4283	COP 4283	Data Sci. Prog.	3	CS	fall	COP 3223C											1
COT	3100C	COT 3100C	Intro. to Discr. Math.	3	CS	all	MAC 2311C											1
ESI	4312	ESI 4312	Det. Meth. For Oper. Res.	3	IEMS	fall	STA 3032	or	STA 4163	and	MAS 3105							3
ISC	4241	ISC 4241	Data Sci. I	3	Stats	fall	MAC 2313	and	STA 2023	and	COP 3502C							3
ISC	4242	ISC 4242	Data Sci. II	3	Math	spring	ISC 4241											4
ISC	4311	ISC 4311	Predictive Analytics	3	Math?	fall	ISC 4242	and	MAS 3105	and	STA 4164							5
ISC	4323C	ISC 4323C	Praxis for Data Sci.	4	IEMS	fall/spring	COP 4283	and	ISC 4311	and	CIS 4340	and	ISC 4551	and	STA 4724			6
ISC	4551	ISC 4551	Data Graph. & Vis.	3	CS	spring	COP 3502C											2
MAC	2311C	MAC 2311C	Calculus I	4	Math	all	MAC 1114	or	MAC 1140C									0
MAC	2312	MAC 2312	Calculus II	4	Math	all	MAC 2311C											1
MAC	2313	MAC 2313	Calculus III	4	Math	all	MAC 2312											2
MAP	4112	MAP 4112	Math. Fnd. of ML and AI	3	Math	fall	MAC 2313	and	MAS 3105									3
MAS	3105	MAS 3105	Matrix & Lin. Alg.	4	Math	fall/spring	MAC 2312											2
MHF	3302	MHF 3302	Logic & Proof in Math	3	Math	fall/spring	MAC 2311C								with	MAC 2312		1
STA	2023	STA 2023	Stat. Methods I	3	Stats	all	MGF 1106	or	MAC XXXX									0
STA	4163	STA 4163	Stat. Methods II	3	Stats	fall/spring	STA 2023	or	STA 3032									1
STA	4164	STA 4164	Stat. Methods III	3	Stats	fall/spring	STA 4163											2
STA	4241	STA 4241	Stat. Learning	3	Stats	fall	STA 4164											3
STA	4364	STA 4364	Stat. Fnd. of Data Sci. & AI I	3	Stats	fall	STA 2023	and	MAS 3105									3
STA	4365	STA 4365	Stat. Fnd. of Data Sci. & AI II	3	Stats	spring	STA 4364											4
STA	4724	STA 4724	Big Data Analytics Meth.	4	Stats	fall	STA 2023											1
PHY	2048C	PHY 2048C	General Physics Using Calc. I	4	Physics	all	MAC 2311C											1
BSC	2010C	BSC 2010C	Biology I	4	Biology	all												0

In the "Offered" column (G), "all" means fall, spring, and summer, courses offered fall/spring might be offered in summer, but there is no guarantee

The table above attempts to summarize the UCF Undergrad. Catalog, but the Undergrad. Catalog has the final word on the actual degree requirements.

Notes: ISC 4311 has ISC 4242 as a prerequisite, so it is not necessary to list ISC 4242 as an additional prerequisite for ISC 4243C.

Notes: The catalog has an error for the prerequisite of STA 4365, it should be STA 4364.

ISC 4242 is taught by Mathematics, but is housed in CECS, so overrides, scheduling, and transfers etc. go through CECS for that course.

Students must pass either COT 3100C or MHF 3302

Students must pass one of: CAP 4611, ESI 4312, MAP 4112, or STA 4241.

PHY 2048C is taught in summer C and multiple sections during fall and spring

BSC 2010C is taught in summer B and multiple sections during fall and spring