

4-Year Academic Plan Guidelines and Template

Department: Data Science Program

Degree, Major: B.S. Data Science – Generic “flight path”

YEAR 1 (Edit credits as appropriate for specific courses in the table.)

FALL COURSES	CREDITS	MILESTONES
CIS 210	4	CIS 210 counts towards Science Group
WR 121	4	
Core Ed: Arts & Letters 1	4	
Core Ed: Social Science 1	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
CIS 211	4	CIS 211 counts towards Science Group
DSCI 101	4	
WR 122	4	
Core Ed: Arts & Letters 2	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CIS 212	4	CIS 212 counts towards Science Group
DSCI 102	4	
MATH 251	4	MATH 251 counts towards Science Group
Core Ed: Social Science 2	4	
TOTAL	16	

YEAR 2

FALL COURSES	CREDITS	MILESTONES
MATH 252	4	
DOM 1	4	
Core Ed: Arts & Letters 3	4	
Core Ed: Social Science 3	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
MATH 341	4	
DOM 2	4	
Core Ed: Arts & Letters 4	4	
Core Ed: Social Science 4	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
MATH 342	4	
DOM 3	4	
Core Ed: Multicultural 1	4	
	4	
TOTAL	16	

4-Year Academic Plan Guidelines and Template

YEAR 3

FALL COURSES	CREDITS	MILESTONES
DSCI 311	4	
DSCI 345	4	Fulfills DSCI Probability category
Core Ed: Multicultural 2	4	
	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DSCI/CIS 372	4	Fulfills DSCI Modeling, Learning and Decision Making category
PHIL 423	4	Fulfills DSCI Human Contexts and Ethics category
	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CID 1	4	
	4	
	4	
	4	
TOTAL	16	

YEAR 4

FALL COURSES	CREDITS	MILESTONES
DOM 4	4	
CID 2	4	
	4	
	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DOM 5	4	
CID 3	4	
	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
DOM 6	4	
DSCI 411	4	Or one additional Domain Specialization course
	4	
	4	
TOTAL	16	

4-Year Academic Plan Guidelines and Template

Department: Data Science Program

Degree, Major: B.S. Data Science – Example for students needing MATH and CIS preparatory courses

YEAR 1 (Edit credits as appropriate for specific courses in the table.)

FALL COURSES	CREDITS	MILESTONES
MATH 112	4	MATH 112 for students who need before CIS 210, MATH 251
CIS 122	4	CIS 122 for students who need before CIS 210
WR 121	4	
Core Ed: Social Science 1	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
CIS 210	4	CIS 210 counts towards Science Group
DSCI 101	4	
WR 122	4	
Core Ed: Arts & Letters 1	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CIS 211	4	CIS 211 counts towards Science Group
DSCI 102	4	
MATH 251	4	MATH 251 counts towards Science Group
Core Ed: Social Science 2	4	
TOTAL	16	

YEAR 2

FALL COURSES	CREDITS	MILESTONES
MATH 252	4	
CIS 212	4	CIS 212 counts towards Science Group
DOM 1	4	
Core Ed: Arts & Letters 2	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
MATH 341	4	
DOM 2	4	
Core Ed: Arts & Letters 3	4	
Core Ed: Social Science 3	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
MATH 342	4	
DOM 3	4	
Core Ed: Multicultural 1	4	
Core Ed: Arts & Letters 4	4	
TOTAL	16	

4-Year Academic Plan Guidelines and Template

YEAR 3

FALL COURSES	CREDITS	MILESTONES
DSCI 311	4	
DSCI 345	4	Fulfills DSCI Probability category
Core Ed: Multicultural 2	4	
Core Ed: Social Science 4	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DSCI/CIS 372	4	Fulfills DSCI Modeling, Learning and Decision Making category
PHIL 423	4	Fulfills DSCI Human Contexts and Ethics category
	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CID 1	4	
	4	
	4	
	4	
TOTAL	16	

YEAR 4

FALL COURSES	CREDITS	MILESTONES
DOM 4	4	
CID 2	4	
	4	
	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DOM 5	4	
CID 3	4	
	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
DOM 6	4	
DSCI 411	4	Or one additional Domain Specialization course
	4	
	4	
TOTAL	16	

4-Year Academic Plan Guidelines and Template

Department: Data Science Program

Degree, Major: B.A. Data Science

YEAR 1 (Edit credits as appropriate for specific courses in the table.)

FALL COURSES	CREDITS	MILESTONES
CIS 210	4	CIS 210 counts towards Science Group
WR 121	4	
Core Ed: Arts & Letters 1	4	
Core Ed: Social Science 1	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
CIS 211	4	CIS 211 counts towards Science Group
DSCI 101	4	
WR 122	4	
Core Ed: Arts & Letters 2	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CIS 212	4	CIS 212 counts towards Science Group
DSCI 102	4	
MATH 251	4	MATH 251 counts towards Science Group
Core Ed: Social Science 2	4	
TOTAL	16	

YEAR 2

FALL COURSES	CREDITS	MILESTONES
MATH 252	4	
DOM 1	4	
Core Ed: Arts & Letters 3	4	
Core Ed: Social Science 3	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
MATH 341	4	
DOM 2	4	
Core Ed: Arts & Letters 4	4	
Core Ed: Social Science 4	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
MATH 342	4	
DOM 3	4	
Core Ed: Multicultural 1	4	
BA Language 1	4	
TOTAL	16	

4-Year Academic Plan Guidelines and Template

YEAR 3

FALL COURSES	CREDITS	MILESTONES
DSCI 311	4	
DSCI 345	4	Fulfills DSCI Probability category
Core Ed: Multicultural 2	4	
BA Language 2	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DSCI/CIS 372	4	Fulfills DSCI Modeling, Learning and Decision Making category
PHIL 423	4	Fulfills DSCI Human Contexts and Ethics category
BA Language 3	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CID 1	4	
BA Language 4	4	
	4	
	4	
TOTAL	16	

YEAR 4

FALL COURSES	CREDITS	MILESTONES
DOM 4	4	
CID 2	4	
BA Language 5	4	
	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DOM 5	4	
CID 3	4	
BA Language 6	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
DOM 6	4	
DSCI 411	4	Or one additional Domain Specialization course
	4	
	4	
TOTAL	16	

4-Year Academic Plan Guidelines and Template

Department: Data Science Program

Degree, Major: B.S. Data Science – Example of Geography Domain Emphasis

YEAR 1 (Edit credits as appropriate for specific courses in the table.)

FALL COURSES	CREDITS	MILESTONES
CIS 210	4	CIS 210 counts towards Science Group
WR 121	4	
Core Ed: Arts & Letters 1	4	
Core Ed: Social Science 1	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
CIS 211	4	CIS 211 counts towards Science Group
DSCI 101	4	
WR 122	4	
Core Ed: Arts & Letters 2	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CIS 212	4	CIS 212 counts towards Science Group
DSCI 102	4	
MATH 251	4	MATH 251 counts towards Science Group
Core Ed: Social Science 2	4	
TOTAL	16	

YEAR 2

FALL COURSES	CREDITS	MILESTONES
MATH 252	4	
DOM 1: GEOG 181	4	
Core Ed: Arts & Letters 3	4	
Core Ed: Social Science 3	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
MATH 341	4	
DOM 2: GEOG 281	4	
Core Ed: Arts & Letters 4	4	
Core Ed: Social Science 4	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
MATH 342	4	
Core Ed: Multicultural 1	4	
	4	
	4	
TOTAL	16	

4-Year Academic Plan Guidelines and Template

YEAR 3

FALL COURSES	CREDITS	MILESTONES
DSCI 311	4	
DSCI/MATH 345	4	Fulfills DSCI Probability category
Core Ed: Multicultural 2	4	
	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DSCI/CIS 372	4	Fulfills DSCI Modeling, Learning and Decision Making category
PHIL 423	4	Fulfills DSCI Human Contexts and Ethics category
	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CID 1: CIS 313	4	
DOM 3: GEOG 481	4	
	4	
	4	
TOTAL	16	

YEAR 4

FALL COURSES	CREDITS	MILESTONES
DOM 4: GEOG 482	4	
CID 2: CIS 314	4	
	4	
	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DOM 5: GEOG 485	4	
CID 3: CIS 322	4	
	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
DOM 6: GEOG 486	4	
DSCI 411	4	Or one additional Domain Specialization course
	4	
	4	
TOTAL	16	

4-Year Academic Plan Guidelines and Template

Department: Data Science Program

Degree, Major: B.S. Data Science – Example of Biology Domain Emphasis

YEAR 1 (Edit credits as appropriate for specific courses in the table.)

FALL COURSES	CREDITS	MILESTONES
CIS 210	4	CIS 210 counts towards Science Group
WR 121	4	
CH 221	4	(required for Domain Emphasis: BI 211)
Core Ed: Arts & Letters 1		
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
CIS 211	4	CIS 211 counts towards Science Group
DSCI 101	4	
WR 122	4	
CH 222	4	(required for CH 223)
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CIS 212	4	CIS 212 counts towards Science Group
DSCI 102	4	
MATH 251	4	MATH 251 counts towards Science Group
CH 223	4	(required for BI 214)
TOTAL	16	

YEAR 2

FALL COURSES	CREDITS	MILESTONES
MATH 252	4	
DOM 1: BI 211	4	
Core Ed: Social Science 1	4	
Core Ed: Arts & Letters 2	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
MATH 341	4	
DOM 2: BI 212	4	
Core Ed: Social Science 2	4	
Core Ed: Arts & Letters 3	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
MATH 342	4	
DOM 3: BI 213	4	
Core Ed: Multicultural 1	4	
Core Ed: Social Science 3	4	
TOTAL	16	

4-Year Academic Plan Guidelines and Template

YEAR 3

FALL COURSES	CREDITS	MILESTONES
DSCI 311	4	
DSCI/MATH 345	4	Fulfills DSCI Probability category
Core Ed: Multicultural 2	4	
BI 214	4	(required for BI 320 and BI 360 selections in Domain Specialization)
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DSCI/CIS 372	4	Fulfills DSCI Modeling, Learning and Decision Making category
PHIL 423	4	Fulfills DSCI Human Contexts and Ethics category
Core Ed: Arts & Letters 4	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CID 1	4	
Core Ed: Social Science 4	4	
	4	
	4	
TOTAL	16	

YEAR 4

FALL COURSES	CREDITS	MILESTONES
DOM 4: BI 320	4	(requires BI 214)
CID 2	4	
	4	
	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DOM 5: BI 360	4	(requires BI 214)
CID 3	4	
	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
DOM 6: BI 485	4	(requires BI 360, which has been selected as DOM 4, and BI 214)
DSCI 411	4	Or one additional Domain Specialization course
	4	
	4	
TOTAL	16	

4-Year Academic Plan Guidelines and Template

Department: Data Science Program

Degree, Major: B.S. Data Science – Example of Biology Domain Emphasis for students who need preparatory MATH and CIS courses

YEAR 1 (Edit credits as appropriate for specific courses in the table.)

FALL COURSES	CREDITS	MILESTONES
CIS 122	4	(preparatory for CIS 210)
MATH 111	4	(prerequisite for CH 221)
WR 121	4	
Core Ed: Arts & Letters 1	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
CIS 210	4	CIS 210 counts towards Science Group
DSCI 101	4	
MATH 112	4	Co-requisite for CH 221
CH 221	4	(prerequisite for Domain Emphasis: BI 211)
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CIS 211	4	CIS 211 counts towards Science Group
DSCI 102	4	
MATH 251	4	MATH 251 counts towards Science Group
CH 222	4	(prerequisite for CH 223)
TOTAL	16	

YEAR 2

FALL COURSES	CREDITS	MILESTONES
MATH 252	4	
DOM 1: BI 211	4	
CH 223	4	(prerequisite for BI 214)
CIS 212	4	CIS 212 counts towards Science Group
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
MATH 341	4	
DOM 2: BI 212	4	
Core Ed: Social Science 2	4	
Core Ed: Arts & Letters 3	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
MATH 342	4	
DOM 3: BI 213	4	
Core Ed: Multicultural 1	4	
Core Ed: Social Science 3	4	

4-Year Academic Plan Guidelines and Template

TOTAL	16	
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YEAR 3

FALL COURSES	CREDITS	MILESTONES
DSCI 311	4	
DSCI/MATH 345	4	Fulfills DSCI Probability category
Core Ed: Multicultural 2	4	
BI 214	4	(prerequisite for BI 320 and BI 360 selections in Domain Specialization)
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DSCI/CIS 372	4	Fulfills DSCI Modeling, Learning and Decision Making category
PHIL 423	4	Fulfills DSCI Human Contexts and Ethics category
Core Ed: Arts & Letters 4	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
CID 1	4	
Core Ed: Social Science 4	4	
	4	
	4	
TOTAL	16	

YEAR 4

FALL COURSES	CREDITS	MILESTONES
DOM 4: BI 320	4	(requires BI 214)
CID 2	4	
	4	
	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
DOM 5: BI 360	4	(requires BI 214)
CID 3	4	
	4	
	4	
TOTAL	16	

SPRING COURSES	CREDITS	MILESTONES
DOM 6: BI 485	4	(requires BI 360, which has been selected as DOM 4, and BI 214)
DSCI 411	4	Or one additional Domain Specialization course
	4	
	4	
TOTAL	16	