



First Year					
1st Semester (16 hrs)			2nd Semester (17 hrs)		
Course	Title	hrs	Course	Title	hrs
MATH A141	Calculus I	4	MATH A142	Calculus II	4
CSCI A125	Introduction to Computer Science	3	ENGL A102	Composition and Literature	3
ENGL A101	Composition	3	CSCI A145	Algorithmic Design I	4
GEN ED	HIST A101 or HIST A102	3	STAT A509	Statistics	3
MATH A174	Discrete Math for Computer Sci.	3	GEN ED	Social and Behavioral Science	3
Second Year					
1st Semester (14 hrs)			2nd Semester (15 hrs)		
Course	Title	hrs	Course	Title	hrs
CSCI A146	Algorithmic Design II	4	CSCI A220	Data Structures & Algorithms	3
MATH A344	Linear Algebra for CS and Eng.	3	CSCI A185	Computer Applications & Prog.	3
CSCI A165	Data Science with Python	4	CSCI A360	Software Engineering	3
College Req.	Elective	3	College Req.	Fine Arts Elective	3
			CSCI A345	Data Mining & Machine Learning	3
Third Year					
1st Semester (15 hrs)			2nd Semester (15 hrs)		
Course	Title	hrs	Course	Title	hrs
CSCI A385	Advanced Machine Learning	3	CSCI A400	Special Topics in Data Science	3
GEN ED	COMM A201 or COMM A241	3	CSCI A320	Object-Oriented Programming	3
GEN ED	Humanities	3	CSCI A415	Computer Networks	3
CSCI A255	Introduction to Information Security	3	GEN ED	Humanities	3
College Req.	Elective	3	GEN ED	POLI A201, HIST A201, or HIST A202	3
Fourth Year					
1st Semester (15 hrs)			2nd Semester (13 hrs)		
Course	Title	hrs	Course	Title	hrs
CSCI A520	Database System Design	3	CSCI A592	Capstone Seminar II	3
CSCI A591	Capstone Seminar I	3	ELECTIVE	CSCI Technical Elective	3
ELECTIVE	CSCI Technical Elective	3	College Req.	Natural Science with Lab	4
GEN ED	Natural Science with Lab	4	ELECTIVE	Free Elective	3
ELECTIVE	Free Elective	2			