

Sem	Grade	Course #	Credits	Course	Prerequisites	Semester offered
Charger Foundation (CF) Requirements 42 credits						
Area I College Writing 3-6 credits (see back for more options)						
		EH 101	3	College Writing I	Placement	FA/SP/SU
		EH 102	3	College Writing II	EH 101 or EH 101S, grade of C- or higher	FA/SP/SU
<input type="checkbox"/> *Seq in HY or LIT required						
Area II Fine Art and Humanities 12 credits						
			3	Fine Art	See Back for Choices	FA/SP/SU
			3	Literature	Completion of Area I	FA/SP/SU
		CM 113	3	Public Speaking	REQUIRED (use as non-literature hum.)	FA/SP/SU
		*	3	Humanities/Fine Arts/Lit	See Back for Choices	FA/SP/SU
Area III Math and Natural Science 12 credits						
		MA 171	4	Calculus A	MA 113, MA 115 or Level 3 placement	FA/SP/SU
Choose one (two course) sequence:						
Lab Science (8 credits)						
		BYS 119	4	Principles of Biology + lab		FA/SP/SU
		BYS 120	4	Organismal Biology + lab	BYS 119 D-	FA/SP/SU
		PH 111/114	3/1	Physics w/ Calculus I + lab	MA 171 C-	FA/SP/SU
		PH 112/115	3/1	Physics w/ Calculus II + lab	PH 111/114 C-, MA 172 C-	FA/SP/SU
		CH 121/125	3/1	Gen Chemistry I + lab	MA 112 C- or MA 113, 115, 120, 171 w/ conc.	FA/SP/SU
		CH 123/126	3/1	Gen Chemistry II + lab	CH 121/125 C-	FA/SP/SU
<input type="checkbox"/> *Seq in HY or LIT required						
Area IV History and Social Behavioral Science 12 credits						
			3	History	See Back for Choices	FA/SP/SU
			3	Social & Behavioral Science		FA/SP/SU
			3	Social & Behavioral Science		FA/SP/SU
		*	3	History/Soc & Beh Science		FA/SP/SU
Area V College of Science (COS) Requirements in addition to those above 24 credits						
			3	Intro Computer Science	See Back for Choices	FA/SP/SU
		EH 301	3	Technical Writing	EH 101, EH 102, & JR Standing (61+ hrs)	FA/SP/SU
			4	Additional (3 rd) Lab science course	See Back for Choices	FA/SP/SU
		MA 172	4	Calculus B	MA 171 C-	FA/SP/SU
		MA 201	4	Calculus C	MA 172 C-	FA/SP/SU
		MA 244	3	Intro to Linear Algebra	MA 172 C-	FA/SP/SU
		MA 385	3	Intro to Probability & Statistics	MA 201	FA/SP/SU
<i>Note: to add a math minor, take one additional MA 3XX or 4XX course. This course will also fulfill the Technical Elective in the CS major.</i>						
Computer Science (CS) Major Requirements 49 credits						
CS core						
		CS 105	1	Computer Science Ethics		FA/SP
		CS 121	3	Computer Science I	(CS 102, 103, or 104) + MA 113 w/ Conc.	FA/SP/SU
		CS 214	3	Introduction to Discrete Struct	CS 121, MA 171	FA/SP/SU
		CS 221	3	Computer Sci II: Data Struct	CS 121, MA 113, Prereq w/ Con: MA 171	FA/SP/SU
		CS 309/ 309L	3	Computer Org & Switching Theory	CS 121, CS 214	FA/SP
		CS 317	3	Intro to Design & Anal of Alg	MA 244, CS 214, CS 221	FA/SP/SU
		CS 321	3	Intro Object-Oriented Prog Java	CS 221	FA/SP
		CS 413/413L	3	Intro Digital Computer Architecture	CS 309/309L	FA/SP
		CS 424	3	Programming Languages	CS 317	FA/SP
		CS 490	3	Intro to Operating Systems	CS 413/413L	FA/SP
		CS 499	3	SR Proj: Team Software Design	CS 317	FA/SP
Data Science Concentration						
		CS 430	3	Survey of Artificial Intelligence	CS 317	?
		CS 488	3	Intro to Big Data Computing	CS 317	FA
<input type="checkbox"/> Choose at least one of: CS 443 Intro Multimedia. Syst., CS 445 Intro Comp. Graph., CS 454 Intro Cloud Comp., CS 481 Modeling & Sim I, CS 482 Modeling & Sim II, or CS 487 Database Systems to count as a CS elective below.						
			3	CS 3XX or 4XX		FA/SP
			3	CS 3XX or 4XX		FA/SP
			3	CS 3XX or 4XX		FA/SP
			3	Technical Elective	See back for choices.	FA/SP
Elective Courses						
13 elective credits if no minor. 10 elective credits if MA minor. Elective courses can be taken in any department and do not have to be in your major or minor. No more than 4 HPE activity (HPE 100-199) credits count for elective courses. See next page for more requirements						

Total (CF + COS + CS + electives) = 128 credits to graduate. 39 of the 128 credits must be taken @ 300 level or higher.									
Unless otherwise noted a C- or better is required for all College of Science prerequisites.									

Computer Science (CS) Major
Charger (CF) Foundations and College of Science (COS) Requirements
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CF Requirements		Choices to fulfill the requirements
College Writing I & II (Requires C- or better)	Choose 1 option →	<ul style="list-style-type: none"> • College Writing I & II (EH 101 + 102) • Intensive Writing & Studio & Freshman Comp II (EH 101S + 101L & EH 102) • Honors English Seminar (EH 105; equivalent to EH 101 & EH 102) Fall only • Accelerated College Writing (EH 103; equivalent to EH 101 & EH 102) Spring only
Fine Arts	Choose 1 →	<ul style="list-style-type: none"> <li style="width: 50%;">• Ancient to Medieval Art (ARH 100) <li style="width: 50%;">• Theater Appreciation (TH 122) <li style="width: 50%;">• Renaissance to Modern Art (ARH 101) <li style="width: 50%;">• Introduction to Drawing (ARS 160) <li style="width: 50%;">• Non-Western Art (ARH 103) <li style="width: 50%;">• Intro to Music Literature (MU 100)
Humanities Non-Literature	Required →	Public Speaking (CM 113) Required course for Science Majors – use as the non-literature Humanities
Literature	Choose 1 →	<ul style="list-style-type: none"> <li style="width: 50%;">• Readings Literature/Culture I (EH 207) <li style="width: 50%;">• Honors Literature I (EH 209) <li style="width: 50%;">• Readings Literature/Culture II (EH 208) <li style="width: 50%;">• Honors Literature II (EH 210) <li style="width: 50%;">• Mythology (EH 242)
Humanities/ Fine Art/ 2nd Literature	Choose 1 →	<ul style="list-style-type: none"> <li style="width: 50%;">• Ancient & Medieval Worlds (AMS 229) <li style="width: 50%;">• Intro to Film Studies (FMA 123) <li style="width: 50%;">• Intro to Philosophy (PHL 101) <li style="width: 50%;">• Foreign Language (WLC 101) <li style="width: 50%;">• Intro to Ethics (PHL 102) <li style="width: 50%;">• International Cinema (WLC 204) <li style="width: 50%;">• Science, Tech & Human Values (PHL 150) <li style="width: 50%;">• Intro to Women's Studies (WS 200) <li style="width: 50%;">• Intro to Logic (PHL 201) <li style="width: 50%;">• See above for Lit & Fine Art Courses
Math	→	Calculus A (MA 171)
Natural Lab Science Sequence	Choose 1 →	<ul style="list-style-type: none"> • Biology I & II (BYS 119/119L/119R + BYS 120/120L/120R) • Physics w/ Calculus I & II (PH 111/114 + PH 112/115) • General Chemistry I & II (CH 121/125 + CH 123/126)
History	Choose 1 →	<ul style="list-style-type: none"> <li style="width: 50%;">• World History I (HY 103) <li style="width: 50%;">• World History II (HY 104) <li style="width: 50%;">• US History I (HY 221) <li style="width: 50%;">• US History II (HY 222)
Social & Behavioral Sciences	Choose 2 →	<ul style="list-style-type: none"> <li style="width: 50%;">• Macroeconomics (ECN 142) <li style="width: 50%;">• Intro to Sociology (SOC 100) <li style="width: 50%;">• Microeconomics (ECN 143) <li style="width: 50%;">• Analysis of Social Problems (SOC 102) <li style="width: 50%;">• American Govt (PSC 101) <li style="width: 50%;">• Intro to Criminology (SOC 103) <li style="width: 50%;">• Politics & Foreign Govt (PSC 102) <li style="width: 50%;">• Intro to Anthropology (SOC 105) <li style="width: 50%;">• International Relations (PSC 260) <li style="width: 50%;">• Sociological Perspective on Tech and Science (SOC 150) <li style="width: 50%;">• World Geography (ESS 105) <li style="width: 50%;">• General Psychology I (PY 101) <li style="width: 50%;">• Human Geography (ESS 110) <li style="width: 50%;">• Life Span Development (PY 201) <li style="width: 50%;">• Global systems & cultures (GS 200)
History OR Social Behavioral Science	Choose 1 →	Take either 2 nd History Course OR 3 rd Social & Behavioral Science (no more than 6 hrs in a discipline)
History or Literature Sequence	Check for one	History: (HY 103 + HY 104) or (HY 221 + HY 222) OR Literature: Any Part I (EH 207, 242, or Honors EH 209) + Any Part II (EH 208 or honors EH 210)
COS Requirements		Choices to fulfill the requirements
Additional Science or Engineering	Choose 1 →	<ul style="list-style-type: none"> <li style="width: 50%;">• Biology (BYS 119) see above <li style="width: 50%;">• Astronomy (AST 106 or 107) <li style="width: 50%;">• Chemistry (CH 121/125) <li style="width: 50%;">• Atmospheric & Earth Science (ESS 103 or ESS 111) <li style="width: 50%;">• Physics (PH 111/114, PH 112/115, or PH 113/116)
Computer Science	→	<ul style="list-style-type: none"> <li style="width: 50%;">• Intro to C Prog. (CS 102) <li style="width: 50%;">• Intro to CS Using Python (CS 104) <li style="width: 50%;">• Intro Prog. Using Java (CS 103)
Technical Writing	→	Technical Writing (EH 301) Junior standing (61 hours) required to take this course
Technical elective	→	Any 3XX or 4XX College of Science course, CPE 412 or 436, PHL 317 or 320, IS 422, 460, 463, 471, or 472. The final MA 3XX or 4XX course in the math minor may also count here.

