

Completed	Course Number	Credits	Course Name	Prerequisites, Corequisites and/or Prerequisites with Concurrency*	Semester Usually Offered
<b>Charger Foundations</b>					
<b>Area I: Freshman Composition 3-6 credits - see attached for more options</b>					
<input type="checkbox"/>	EH 101	3	College Writing I	Placement*	FA/SP/SU
<input type="checkbox"/>	EH 102	3	College Writing II	EH 101 or EH 101S	FA/SP/SU
<input type="checkbox"/>	EH 103	3	Accelerated College Writing	Placement*	SP
<input type="checkbox"/>	EH 105	3	Honors English Seminar	Honors	FA
<b>Area II: Humanities and Fine Arts 12 credits</b>					
<input type="checkbox"/>		3	Fine Art	See attached for choices	
<input type="checkbox"/>		3	Literature	Completion of Area I	
<input type="checkbox"/>	*	3	Non-Literature Humanity - Ethics requirement	See attached for choices	
<input type="checkbox"/>	*	3	Humanities/Fine Arts/Literature	See attached for choices	
<b>Area III: Mathematics and Sciences 11-12 credits</b>					
<b>Mathematics 4 credits</b>					
<input type="checkbox"/>	MA 171	4	Calculus A	Placement* or MA 113 or MA 115	FA/SP/SU
<b>Natural Sciences (Lab) 8 credits</b>					
<input type="checkbox"/>	AES 103/103L & AES 104/104L	4 4	Environmental Earth Science + Lab Weather & Climate Change + Lab		FA/SP/SU
<input type="checkbox"/>	BYS 119/121 & BYS 120/122	3/1 3/1	Principles of Biology + Lab Organismal Biology + Lab		FA/SP/SU
<input type="checkbox"/>	CH 121/125 CH 123/126	3/1 3/1	General Chemistry I + Lab General Chemistry II + Lab	Placement* or CH 101, prereq w/ conc: MA 113+ CH 121	FA/SP/SU
<input type="checkbox"/>	PH 111/114 PH 112/115	3/1 3/1	General Physics w/ Calculus I + Lab General Physics w/ Calculus II + Lab	MA 171 MA 172, PH 111/114	FA/SP/SU
<b>Area IV: History and Social &amp; Behavioral Sciences 12 credits</b>					
<input type="checkbox"/>		3	History	See attached for choices	
<input type="checkbox"/>		3	Social & Behavioral Science	See attached for choices	
<input type="checkbox"/>		3	Social & Behavioral Science	See attached for choices	
<input type="checkbox"/>	*	3	History/Social & Behavioral Science	See attached for choices	
<b>Area V: Pre-Professional</b>					
<b>For Computer Science Majors 21 credits</b>					
<input type="checkbox"/>	FYE 101S	1	Charger Success - Science	REQUIRED	FA
<input type="checkbox"/>		3	Intro to Computer Programming	See attached for choices	
<input type="checkbox"/>	EH 301	3	Technical Writing	Junior standing (60+ hours), EH 102/103/105	FA/SP/SU
<input type="checkbox"/>	MA 172	4	Calculus B	MA 171	FA/SP/SU
<input type="checkbox"/>	MA 201	4	Calculus C	MA 172	FA/SP/SU
<input type="checkbox"/>	MA 244	3	Intro to Linear Algebra	MA 120 or MA 172	FA/SP/SU
<input type="checkbox"/>	MA 385	3	Intro to Probability & Statistics	MA 201	FA/SP/SU
<b>Major Requirements</b>					
<b>Computer Science Core 30 credits</b>					
<input type="checkbox"/>	CS 121	3	Computer Science I	CS 102/103/104, prereq w/ conc: MA 113+	FA/SP SU
<input type="checkbox"/>	CS 214	3	Intro to Discrete Structures	MA 171, (CS 121 or CPE 211)	FA/SP SU
<input type="checkbox"/>	CS 221	3	Computer Science II: Data Structures	CS 121, MA 113 or 115, prereq w/ conc: MA 171	FA/SP SU
<input type="checkbox"/>	CS 309/309L	3	Computer Org & Switching Theory + Lab	CS 214	FA/SP SU
<input type="checkbox"/>	CS 317	3	Intro Design/Analysis of Alg	MA 171, 244, CS 214, (CS 221 or CPE 212)	FA/SP SU
<input type="checkbox"/>	CS 321	3	Intro Object-Oriented Prog Java	CS 221	FA/SP SU
<input type="checkbox"/>	CS 413/413	3	Intro to Digital Comp Architecture + Lab	CS 309	FA/SP
<input type="checkbox"/>	CS 424	3	Principles Programming Language	CS 317	FA/SP/SU
<input type="checkbox"/>	CS 490	3	Intro to Operating Systems	CS 413	FA/SP
<input type="checkbox"/>	CS 499	3	Sr Project: Team Software Design	CS 317	FA/SP
<b>Data Science Concentration Requirements 6 credits</b>					
<input type="checkbox"/>	CS 430	3	Survey of Artificial Intelligence	CS 317	FA
<input type="checkbox"/>	CS 488	3	Intro to Big Data Computing	CS 317	FA/SP
<b>Data Science Concentration Elective Requirements 9credits</b>					
Choose any two 300-level or higher CS courses					
<input type="checkbox"/>					
<input type="checkbox"/>					
Choose one:					
<input type="checkbox"/>	CS 443	3	Intro to Multimedia Systems	CS 317	SP
<input type="checkbox"/>	CS 445	3	Intro to Computer Graphics	CS 221, MA 244	FA/SP
<input type="checkbox"/>	CS 454	3	Intro to Cloud Computing	CS 307 or CS 321, and (CS 370 or CPE 348)	SP
<input type="checkbox"/>	CS 481	3	Modeling & Simulation I	CS 221 and (MA 385 or ISE 390)	FA
<input type="checkbox"/>	CS 482	3	Modeling & Simulation II	CS 481	
<input type="checkbox"/>	CS 487	3	Database Systems	Senior standing (91+ hours)	FA
<b>General Electives</b>					
Elective courses can be taken from any department and do not have to be taken in your major or minor.					
<b>Total = 120+ credits to graduate</b>					
36 of the 120 credits must be taken at 300-level or higher.					



Charger Foundations Choices		
<b>I. Freshman Composition</b>	Choose 1	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) Accelerated College Writing (EH 103; equivalent to EH 101 & EH 102)
<b>II. Fine Arts</b>	Choose 1	Ancient to Medieval Art (ARH 100) Renaissance to Modern Art (ARH 101) World Art (ARH 103) Introduction to Drawing (ARS 160) Intro to Film Studies (FMA 123) Intro to Music Literature (MU 100) Theatre Appreciation (TH 122)
<b>II. Humanities (Literature)</b>	Choose 1	Readings Literature/Culture I (EH 207) Mythology (EH 242) Readings Literature/Culture II (EH 208) Protest Literature (EH 243) Honors Literature/Culture I (EH 209) Heroes &/or Monsters (EH 244) Honors Literature/Culture II (EH 210) Love &/or Romance (EH 245) Literature Without Borders (EH 241) Speculative Realities (EH 246)
<b>II. Humanities (Non-Literature)</b>	Choose 1	Intro to Ethics (PHL 102) Science, Tech & Human Values (PHL 150)
<b>III. Mathematics</b>	→	Calculus A (MA 171)
<b>III. Natural Sciences (Lab) Sequence</b>	Choose one 2-course sequence	Environmental Earth Science (AES 103/103L) <b>and</b> Weather & Climate Change (AES 104/104L) Principles of Biology (BYS 119/121) <b>and</b> Organismal Biology (BYS 120/122) General Chemistry I (CH 121/125) <b>and</b> General Chemistry II (CH 123/126) General Physics w/ Calculus I (PH 111/114) <b>and</b> General Physics w/ Calculus II (PH 112/115)
<b>IV. History</b>	Choose 1	World History I (HY 103) United States to 1877 (HY 221) World History II (HY 104) United States Since 1877 (HY 222)
<b>IV. Social &amp; Behavioral Sciences</b>	Choose 2	World Geography (AES 105) International Relations (PSC 260) Human Geography (AES 110) General Psychology (PY 101) Global systems & Cultures (GS 200) Life Span Development (PY 201) Macroeconomics (ECN 142) Intro to Sociology (SOC 100) Microeconomics (ECN 143) Analysis of Social Problems (SOC 102) American Gov't (PSC 101) Intro to Criminology (SOC 103) Politics & Foreign Govt (PSC 102)
<b>Students must take one literature and one history course. Students must also take <u>either</u> a second literature <u>or</u> history course to complete a sequence.</b>		
<b>Area II Sequence</b>	Take a 2 <sup>nd</sup> Literature <b>AND</b> History or Social & Behavioral Science	
<b>OR</b>		
<b>Area IV Sequence</b>	Take a 2 <sup>nd</sup> History <b>AND</b> Fine Arts or Non-Literature Humanities or Literature Humanities	
Area V. Choices		
<b>Intro to Computer Programming</b>	Choose 1	Intro to C Programming (CS 102) Intro to Programming Using Java (CS 103) Intro to Computer Science Using Python (CS 104)