

Completed	Course Number	Credits	Course Name	Prerequisites, Corequisites, and/or Prerequisites with Concurrency	Semester Usually Offered
Charger Foundations					
Area I: Freshman Composition 6 credits - see attached for more options					
<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
Area II: Humanities and Fine Arts 12 credits					
<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	See attached for choices	
<input type="checkbox"/>	*	3	Humanities/Fine Arts/Literature	See attached for choices	
Area III: Mathematics and Sciences 12 credits					
Mathematics 4 credits					
<input type="checkbox"/>	MA 171 or MA 171S	4	Calculus A	MA 113, 115, or Placement	FA/SP/SU
Natural Sciences (Lab) 8 credits					
<input type="checkbox"/>	PH 111/114	3/1	Physics w/ Calculus I + Lab	MA 171	FA/SP/SU
<input type="checkbox"/>	PH 112/115	3/1	Physics w/ Calculus II + Lab	PH 111/114, MA 172	FA/SP/SU
Area IV: History and Social & Behavioral Sciences 12 credits					
<input type="checkbox"/>		3	History	See attached for choices	
<input type="checkbox"/>	AES 105	3	World Geography	Strongly Recommended, see attached for all choices	SP
<input type="checkbox"/>	AES 110	3	Human Geography	Strongly Recommended, see attached for all choices	FA
<input type="checkbox"/>		3	History/Social & Behavioral Science	See attached for choices	
Area V: Pre-Professional					
For Atmospheric & Earth Science Majors (ATS) 22 credits					
<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"/>	CH 121/125	3/1	General Chemistry I + Lab	Placement or MA 113 w/ conc	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 238	3	Applied Differential Equations	MA 172, 201 w/ conc	FA/SP/SU
<input type="checkbox"/>		3	Applied Statistics Course	See attached for choices	
Major Requirements					
Atmospheric & Earth Science Core 17 credits					
<input type="checkbox"/>	AES 103/103L	4	Environmental Earth Science + Lab		FA/SP
<input type="checkbox"/>	AES 104/ 104L	4	Weather & Climate Change + Lab		FA/SP
<input type="checkbox"/>	AES 209	2	Data Analysis Tools	AES 103, 104 and CS 102+ w/ conc	FA/SP
<input type="checkbox"/>	*AES 301	3	Intro to Earth & Atmos Physics	AES 103, 104, PH 101 or 111, MA 120 or 171	FA/SP
<input type="checkbox"/>	*AES 303	3	Class/Physical Causes Climate	AES 103, 104, PH 101 or 111, MA 120 or 171	SP
<input type="checkbox"/>	AES 498	1	Research & Prof Dev Capstone	Junior or Senior Standing (61+ credits)	FA/SP
Atmospheric Science/Meteorology Concentration 16 credits					
<input type="checkbox"/>	AES 212/212L	4	Severe Weather Analysis	AES 104	SP
<input type="checkbox"/>	AES 321 (or AES 370)	3	Pollution Problems (or Intro to Remote Sensing)	AES 103, 104, CH 101 or 121, MA 120+, PH 101 or 111 (AES 370: and CS 102, 103, or 104)	FA (SP)
<input type="checkbox"/>	*AES 341	3	Thermodynamic Meteorology	AES 209, 212, 301, and CS 102/103/104 prereqs w/ conc: MA 201, PH 112	FA
<input type="checkbox"/>	*AES 351	3	Dynamic Meteorology	AES 301, PH 111, CS 102/103/104 prereq w/ conc: MA 201	FA
<input type="checkbox"/>	AES 408 (or AES 409)	3	Python for GIS (or Sci Programming for Earth/Atmos)	AES 313 (AES 409: AES 301, CS 102/103/104, MA 172, PH 112/115)	SP (FA)
Atmospheric Science/Meteorology Concentration Electives Choose 17 credits: 9 credits must be 400+ level					
*AES 305, AES 352, AES 410, AES 454, AES 471, AES 472. These courses count towards the National Weather Service GS-1340 Federal Civil Service Requirements.					
AES 313, AES 408, and AES 414 - Student may choose 2 of these 3 GIS tools courses to count as concentration electives.					
AES 495 or AES 497 or AES 499 - Student may choose only one of these courses to count as a concentration elective.					
AES 321, AES 370, AES 408, AES 409 - Each of these courses can be used to satisfy a concentration requirement or an elective requirement, but not both.					
<input type="checkbox"/>					
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General Electives					
Elective courses can be taken from any department and do not have to be taken in your major or minor.					
Total = 120+ credits to graduate					
36 of the 120 credits must be taken at 300-level or higher.					

Charger Foundations Choices			
I. Freshman Composition	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)	
II. Fine Arts	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)	
II. Humanities (Literature)	Choose 1	Readings Literature/Culture I (EH 207) Readings Literature/Culture II (EH 208) Honors Literature/Culture I (EH 209) Honors Literature/Culture II (EH 210) Literature Without Borders (EH 241)	Mythology (EH 242) Protest Literature (EH 243) Heroes &/or Monsters (EH 244) Love &/or Romance (EH 245) Speculative Realities (EH 246)
II. Humanities (Non-Literature)	Choose 1	Ancient to Medieval Art (ARH 100) Renaissance to Modern Art (ARH 101) World Art (ARH 103) Introduction to Drawing (ARS 160) Ancient & Medieval Worlds (AMS 229) Public Speaking (CM 113) Intro to Film Studies (FMA 123) Intro to Music Literature (MU 100) Intro to Philosophy (PHL 101)	Intro to Philosophy (PHL 101) Intro to Ethics (PHL 102) Intro to Logic (PHL 103) Science, Tech & Human Values (PHL 150) Theatre Appreciation (TH 122) Intro to Women's Studies (WGS 200) Foreign Language (WLC 101) International Cinema (WLC 204)
III. Mathematics	→	Calculus A (MA 171 or MA 171S)	
III. Natural Sciences (Lab Sequence)	→	Physics w/ Calculus I (PH 111/114) Physics w/ Calculus II (PH 112/115)	
IV. History	Choose 1	World History I (HY 103) World History II (HY 104)	United States to 1877 (HY 221) United States Since 1877 (HY 222)
IV. Social & Behavioral Sciences	Choose 2	World Geography (AES 105) Human Geography (AES 110) Global systems & Cultures (GS 200) Macroeconomics (ECN 142) Microeconomics (ECN 143) American Gov't (PSC 101) Politics & Foreign Govt (PSC 102)	International Relations (PSC 260) General Psychology (PY 101) Life Span Development (PY 201) Intro to Sociology (SOC 100) Analysis of Social Problems (SOC 102) Intro to Criminology (SOC 103)
Students must take one literature and one history course. Students must also take either a second literature or history/social & behavioral science course to complete a sequence.			
Area II Sequence	Take a 2 nd Literature AND History or Social & Behavioral Science		
OR			
Area IV Sequence	Take either 2 nd History OR 3 rd Social & Behavioral Science AND Fine Arts or Non-Literature Humanities or Literature Humanities		
Area V. Choices			
Computer Programming	Choose 1	Intro to Computers & Programming (CS 100) Intro to C Programming (CS 102) Intro to Programming Using JAVA (CS 103) Intro to CS Using Python (CS 104)	
Applied Statistics	Choose 1	Elements of Statistics Analysis (MA 281) Probability & Statistics (MA 385) Intro to Social Science Statistics (PSC 300) Psychological Statistics (PY 300) Statistics for Social Sciences (SOC 303)	
Major Choices			
Concentration Electives	Choose 17 Credits (9 @ 400+)	AES 305 Hydrology* AES 313 Geographic Information Systems AES 321 Pollution Problems AES 352 Synoptic Meteorology* AES 370 Intro to Remote Sensing AES 402 Natural Disasters AES 408 Python for GIS AES 409 Scientific Programming for Earth & Atmos AES 410 Operational Weather Forecasting* AES 414 Geospatial Applications AES 420 Intro Atmospheric Chemistry & Air Pollution	AES 441 Atmospheric Thermodynamics & Cloud Physics AES 451 Atmospheric Fluid Dynamics I AES 454 Forecasting Mesoscale Proc* AES 461 Atmospheric Radiation I AES 471 Radar Meteorology AES 472 Satellite Meteorology* AES 490 Special Topics in Earth & Atmos AES 495 Directed Study AES 497 Undergrad Internship AES 499 Undergrad Research

Strongly recommended.