

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 6 credits - see attached for more options</b>					
<input type="checkbox"/>	EH 101	3	College Writing I	<a href="#">Placement</a>	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	<a href="#">Placement</a>	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	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 3-4 credits</b>					
<input type="checkbox"/>	MA 120 (or MA 171/171S)	3-4	Math Professional Applications (or Calculus A)	<a href="#">Placement</a> or MA 107, 112 (or MA 113 or 115)	FA/SP/SU
<b>Natural Sciences (Lab) 8 credits</b>					
<input type="checkbox"/>	PH 101/101L (or PH 111/115)	4	General Physics I + Lab (or General Physics w/ Calculus I +	(or MA 171)	FA/SP/SU
<input type="checkbox"/>	PH 102/102L (or PH 112/116)	4	General Physics II + Lab (or General Physics w/ Calculus II +	PH 101 (or 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"/>	AES 105	3	World Geography	Strongly Recommended, see attached for all choices	FA/SP
<input type="checkbox"/>	AES 110	3	Human Geography	Strongly Recommended, see attached for all choices	FA/SP
<input type="checkbox"/>		3	History/Social & Behavioral Science	See attached for choices	
<b>Area V: Pre-Professional</b>					
<b>For Atmospheric &amp; Earth Science Majors (ESS) 14-15 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"/>		4	Biology or Chemistry	See attached for choices	
<input type="checkbox"/>	MA 281 (or MA 172)	3 (4)	Math Professional Applications (or Calculus B)	MA 113, 115, or <a href="#">Placement</a> (or MA 171)	FA/SP (FA/SP/SU)
<input type="checkbox"/>		3	Applied Statistics course	See attached for choices	
<b>Atmospheric &amp; Earth Science Core 17 credits</b>					
<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+ credit hours)	FA/SP
<b>Earth System Science Concentration 15 credits</b>					
<input type="checkbox"/>	AES 305	4	Hydrology	AES 103, 104, MA 120 or 171, and PH 101 or 111	SP
<input type="checkbox"/>	AES 312 (or AES 321)	3	Principles of Ecology (or Pollution Problems)	BYS 120 (AES 103, 104, CH 101 or 121, MA 120+, PH 101 or 111)	FA/SP
<input type="checkbox"/>	AES 313	3	Geographic Information Systems	AES 103 and CS 102/103/104	FA/SP
<input type="checkbox"/>	AES 370	3	Introduction to Remote Sensing	AES 103, 104, CS 102/103/104, MA 120+, PH 101 or 111	FA/SP
<input type="checkbox"/>	AES 408 (or AES 409)	3	Python for GIS (or Sci Programming for Earth/Atmos)	AES 313 (AES 301, CS 102/103/104, MA 172, PH 112/115)	SP (FA)
<b>Earth System Science Concentration Electives Choose 17-18 credits: 6 credits must be 400+ level</b>					
AES 495 or AES 497 or AES 499 - Student may choose only one of these courses to count as a concentration elective.					
AES 312, AES 321, 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"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<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) 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)
<b>II. Humanities (Non-Literature)</b>	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)
<b>III. Mathematics</b>	Choose 1	Math Professional Applications (MA 120) Calculus A (MA 171 or MA 171S)	
<b>III. Natural Sciences (Lab) Sequence</b>	Choose 1 sequence	Physics w/ Calculus I (PH 111/114) and Physics w/ Calculus II (PH 112/115) General Physics I (PH 101/101L) and General Physics II (PH 102/102L)	
<b>IV. History</b>	Choose 1	World History I (HY 103) World History II (HY 104)	United States to 1877 (HY 221) United States Since 1877 (HY 222)
<b>IV. Social &amp; Behavioral Sciences</b>	Choose 2	<b>World Geography (AES 105)</b> <b>Human Geography (AES 110)</b> 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)
<b>Students must take one literature and one history course.</b>			
<b>Students must also take either a second literature or history/social &amp; behavioral science 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 either 2 <sup>nd</sup> History <b>OR</b> 3 <sup>rd</sup> Social & Behavioral Science <b>AND</b> Fine Arts or Non-Literature Humanities or Literature Humanities		
Area V. Choices			
<b>Biology or Chemistry</b>	Choose 1	Organismal Biology + Lab (BYS 120/121) Intro to Chemistry + Lab (CH 101/105) General Chemistry I + Lab (CH 121/125)	
<b>Computer Programming</b>	Choose 1	Intro to Computers & Programming (CS 100) Intro to C Programming (CS 102) Intro to Programming Using JAVA (CS 103) <b>Intro to CS Using Python (CS 104)</b>	
<b>Applied Statistics</b>	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			
<b>Concentration Electives</b>	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

\*MA 281 can be used to satisfy the Area V Mathematics requirement or the Applied Statistics requirement, but not both.  
**Strongly recommended.**

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<b>Charger Foundations</b>					
<b>Area I: Freshman Composition 6 credits - see attached for more options</b>					
<input type="checkbox"/>	EH 101	3	College Writing I	<a href="#">Placement</a>	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	<a href="#">Placement</a>	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	See attached for choices	
<input type="checkbox"/>	*	3	Humanities/Fine Arts/Literature	See attached for choices	
<b>Area III: Mathematics and Sciences 12 credits</b>					
<b>Mathematics 4 credits</b>					
<input type="checkbox"/>	MA 171 or MA 171S	4	Calculus A	MA 113, 115, or <a href="#">Placement</a>	FA/SP/SU
<b>Natural Sciences (Lab) 8 credits</b>					
<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
<b>Area IV: History and Social &amp; Behavioral Sciences 12 credits</b>					
<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	
<b>Area V: Pre-Professional</b>					
<b>For Atmospheric &amp; Earth Science Majors (ATS) 22 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"/>	CH 121/125	3/1	General Chemistry I + Lab	<a href="#">Placement</a> 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	
<b>Major Requirements</b>					
<b>Atmospheric &amp; Earth Science Core 17 credits</b>					
<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
<b>Atmospheric Science/Meteorology Concentration 16 credits</b>					
<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)
<b>Atmospheric Science/Meteorology Concentration Electives Choose 17 credits: 9 credits must be 400+ level</b>					
*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"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<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			
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<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) 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)
<b>II. Humanities (Non-Literature)</b>	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)
<b>III. Mathematics</b>	→	Calculus A (MA 171 or MA 171S)	
<b>III. Natural Sciences (Lab Sequence)</b>	→	Physics w/ Calculus I (PH 111/114) Physics w/ Calculus II (PH 112/115)	
<b>IV. History</b>	Choose 1	World History I (HY 103) World History II (HY 104)	United States to 1877 (HY 221) United States Since 1877 (HY 222)
<b>IV. Social &amp; Behavioral Sciences</b>	Choose 2	<b>World Geography (AES 105)</b> <b>Human Geography (AES 110)</b> 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)
<b>Students must take one literature and one history course.</b> <b>Students must also take either a second literature or history/social &amp; behavioral science 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 either 2 <sup>nd</sup> History <b>OR</b> 3 <sup>rd</sup> Social & Behavioral Science <b>AND</b> Fine Arts or Non-Literature Humanities or Literature Humanities		
Area V. Choices			
<b>Computer Programming</b>	Choose 1	Intro to Computers & Programming (CS 100) Intro to C Programming (CS 102) Intro to Programming Using JAVA (CS 103) <b>Intro to CS Using Python (CS 104)</b>	
<b>Applied Statistics</b>	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			
<b>Concentration Electives</b>	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

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