

| Completed                                                                                                                                                                                                                                                                                                   | Course Number                | Credits    | Course Name                                                                 | Semester Usually Offered |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----------------------------------------------------------------------------|--------------------------|
| <b>Charger Foundations</b>                                                                                                                                                                                                                                                                                  |                              |            |                                                                             |                          |
| <b>Choose one:</b>                                                                                                                                                                                                                                                                                          |                              |            |                                                                             |                          |
| <b>Area I: Freshman Composition 3-6 credits</b>                                                                                                                                                                                                                                                             |                              |            |                                                                             |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | EH 101 & EH 102              | 6          | College Writing, I & II*                                                    | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | EH 103                       | 3          | Accelerated College Writing*                                                | SP                       |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | EH 105                       | 3          | Honors English Seminar*                                                     | FA                       |
| <b>Area II: Humanities and Fine Arts 12 credits</b>                                                                                                                                                                                                                                                         |                              |            |                                                                             |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    |                              | 3          | Fine Art                                                                    | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    |                              | 3          | Literature                                                                  | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | PHL 102 or 150               | 3          | Non-Literature Humanity - Ethics requirement can double count here          | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    |                              | 3          | Humanities/Fine Arts/Literature                                             | FA/SP/SU                 |
| <b>Area III: Mathematics and Sciences 11-12 credits</b>                                                                                                                                                                                                                                                     |                              |            |                                                                             |                          |
| <b>Mathematics 4 credits</b>                                                                                                                                                                                                                                                                                |                              |            |                                                                             |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | MA 171, 171S or MA 150 & 151 | 4          | Calculus I<br>Calculus I with Foundations A & B                             | FA/SP/SU                 |
| <b>Choose one sequence:</b>                                                                                                                                                                                                                                                                                 |                              |            |                                                                             |                          |
| <b>Natural Sciences (Lab) 8 credits</b>                                                                                                                                                                                                                                                                     |                              |            |                                                                             |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | AES 103/103L & AES 104/104L  | 4<br>4     | Environmental Earth Science + Lab<br>Weather & Climate Change + Lab         | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | BYS 119/121 & BYS 120/122    | 3/1<br>3/1 | Principles of Biology + Lab<br>Organismal Biology + Lab                     | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CH 121/125 & CH 123/126      | 3/1<br>3/1 | General Chemistry I + Lab<br>General Chemistry II + Lab                     | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | PH 111/114 & PH 112/115      | 3/1<br>3/1 | General Physics w/ Calculus I + Lab<br>General Physics w/ Calculus II + Lab | FA/SP/SU                 |
| <b>Area IV: History and Social &amp; Behavioral Sciences 12 credits</b>                                                                                                                                                                                                                                     |                              |            |                                                                             |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    |                              | 3          | History                                                                     | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    |                              | 3          | Social & Behavioral Science                                                 | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    |                              | 3          | Social & Behavioral Science                                                 | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    |                              | 3          | History or Social & Behavioral Science                                      | FA/SP/SU                 |
| <b>Area V: Pre-Professional</b>                                                                                                                                                                                                                                                                             |                              |            |                                                                             |                          |
| <b>Additional Requirements 24 credits</b>                                                                                                                                                                                                                                                                   |                              |            |                                                                             |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | FYE 101S                     | 1          | Charger Success - Science                                                   | FA                       |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 104                       | 3          | Intro to CS Using Python                                                    | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | PHL 102 or 150               | 3          | Ethics Requirement                                                          | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | EH 301                       | 3          | Technical Writing                                                           | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | MA 172                       | 4          | Calculus II                                                                 | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | MA 201                       | 4          | Calculus III                                                                | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | MA 244                       | 3          | Intro to Linear Algebra                                                     | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | MA 385                       | 3          | Intro to Probability & Statistics                                           | FA/SP/SU                 |
| <b>Major Requirements</b>                                                                                                                                                                                                                                                                                   |                              |            |                                                                             |                          |
| <b>Computer Science Core 30 credits</b>                                                                                                                                                                                                                                                                     |                              |            |                                                                             |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 121                       | 3          | Computer Science I                                                          | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 214                       | 3          | Intro to Discrete Structures                                                | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 221                       | 3          | Computer Science II: Data Structures                                        | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 309/309L                  | 3          | Computer Org & Switching Theory + Lab                                       | FA/SP                    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 317                       | 3          | Intro Design/Analysis of Algorithms                                         | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 321                       | 3          | Intro Object-Oriented Prog Java                                             | FA/SP                    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 413/413                   | 3          | Intro to Digital Comp Architecture + Lab                                    | FA/SP                    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 424                       | 3          | Principles Programming Language                                             | FA/SP/SU                 |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 490                       | 3          | Intro to Operating Systems                                                  | FA/SP                    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 499                       | 3          | Sr Project: Team Software Design                                            | FA/SP                    |
| <b>Data Science Concentration Requirements 6 credits</b>                                                                                                                                                                                                                                                    |                              |            |                                                                             |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 430                       | 3          | Survey of Artificial Intelligence                                           | FA/SP                    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    | CS 488                       | 3          | Intro to Big Data Computing                                                 | FA/SP                    |
| <b>Data Science Concentration Elective Requirements 9 credits</b>                                                                                                                                                                                                                                           |                              |            |                                                                             |                          |
| Choose any two 300+ or 400+ level CS courses <b>and</b><br>Choose one CS course from: Intro to Multimedia Systems (CS 443),<br>Intro to Computer Graphics (CS 445), Intro to Cloud Computing (CS 454),<br>Modeling & Simulation I (CS 481), Modeling & Simulation II (CS 482), or Database Systems (CS 487) |                              |            |                                                                             |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    |                              | 3          |                                                                             | FA/SP                    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    |                              | 3          |                                                                             | FA/SP                    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                    |                              | 3          |                                                                             | FA/SP                    |
| <b>General Electives</b>                                                                                                                                                                                                                                                                                    |                              |            |                                                                             |                          |
| Elective courses can be taken from any department and do not have to be taken in your major or minor. Only 4 HPE credits can apply.                                                                                                                                                                         |                              |            |                                                                             |                          |
| <b>Total = 120+ credits to graduate</b>                                                                                                                                                                                                                                                                     |                              |            |                                                                             |                          |
| 36 of the 120 credits must be taken at 300-level or higher.<br>All prerequisite classes must be completed with a "C-" or higher grade.                                                                                                                                                                      |                              |            |                                                                             |                          |

### Charger Foundations Choices

|                                         |                                            |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Freshman Composition</b>             | Choose 1                                   | College Writing, I & II (EH 101 + EH 102)<br>Honors English Seminar (EH 105; equivalent to EH 101 & EH 102)<br>Accelerated College Writing (EH 103; equivalent to EH 101 & EH 102)                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                           |
| <b>Fine Arts</b>                        | Choose 1                                   | Ancient to Medieval Art (ARH 100)<br>Renaissance to Modern Art (ARH 101)<br>World Art (ARH 103)<br>Introduction to Drawing (ARS 160)<br>Intro to Film Studies (FMA 123)<br>Intro to Music Literature (MU 100)<br>Theatre Appreciation (TH 122)                                                                                                                         |                                                                                                                                                                                                                                                                                           |
| <b>Literature</b>                       | Choose 1                                   | Readings Literature/Culture I (EH 207)<br>Readings Literature/Culture II (EH 208)<br>Literature Without Borders (EH 241)<br>Mythology (EH 242)                                                                                                                                                                                                                         | Protest Literature (EH 243)<br>Heroes &/or Monsters (EH 244)<br>Love &/or Romance (EH 245)<br>Speculative Realities (EH 246)                                                                                                                                                              |
| <b>Humanities (Non-Literature)</b>      | Choose 2<br>one must be Ethics requirement | Ancient to Medieval Art (ARH 100)<br>Renaissance to Modern Art (ARH 101)<br>World Art (ARH 103)<br>Introduction to Drawing (ARS 160)<br>Ancient & Medieval Worlds (AMS 229)<br>Public Speaking (CM 113)<br>Intro to Film Studies (FMA 123)<br>Intro to Music Literature (MU 100)                                                                                       | Intro to Philosophy (PHL 101)<br><b>Intro to Ethics (PHL 102)</b><br>Intro to Logic (PHL 103)<br><b>Science, Tech &amp; Human Values (PHL 150)</b><br>Theatre Appreciation (TH 122)<br>Intro to Women's Studies (WGS 200)<br>Foreign Language (WLC 101)<br>International Cinema (WLC 204) |
| <b>Mathematics</b>                      | Choose 1                                   | Calculus I (MA 171, 171S) or Calculus I with Foundations A & B (MA 150 & MA 151)                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                           |
| <b>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)<br>Principles of Biology (BYS 119/121) <b>and</b> Organismal Biology (BYS 120/122)<br>General Chemistry I (CH 121/125) <b>and</b> General Chemistry II (CH 123/126)<br>General Physics w/ Calculus I (PH 111/114) <b>and</b> General Physics w/ Calculus II (PH 112/115) |                                                                                                                                                                                                                                                                                           |
| <b>History</b>                          | Choose 1 or 2                              | World History I (HY 103)<br>World History II (HY 104)                                                                                                                                                                                                                                                                                                                  | United States to 1877 (HY 221)<br>United States Since 1877 (HY 222)                                                                                                                                                                                                                       |
| <b>Social &amp; Behavioral Sciences</b> | Choose 2 or 3                              | World Geography (AES 105)<br>Human Geography (AES 110)<br>Global systems & Cultures (GS 200)<br>Macroeconomics (ECN 142)<br>Microeconomics (ECN 143)<br>American Gov't (PSC 101)                                                                                                                                                                                       | Politics & Foreign Govt (PSC 102)<br>International Relations (PSC 260)<br>General Psychology (PY 101)<br>Life Span Development (PY 201)<br>Intro to Sociology (SOC 100)<br>Intro to Criminology (SOC 103)                                                                                 |

**Students must take one literature and one history course.**

**Students must also take either a second literature or history course to complete a sequence.**

|  |                                                                                                           |
|--|-----------------------------------------------------------------------------------------------------------|
|  | Take a 2 <sup>nd</sup> Literature <b>AND</b> History or Social & Behavioral Science                       |
|  | Take a 2 <sup>nd</sup> History <b>AND</b> Fine Arts or Non-Literature Humanities or Literature Humanities |