Example 4 year plan (Start with CS 1400)

Year 1

Fall Semester (16 credits)

- CS 1400, Intro to Computer Programming (3)
- Math 1310, Engineering Calculus I (QR) (4)
- [[Wrtg 2010, Intermediate Writing (WR2) (3)]]
- [[American Institutions (AI) (3)]]
- [[Humanities (HF): (3)]]

Spring Semester (14 credits)

- CS 1410, Object-Orient. Prog. (4)
- Math 1320, Engineering Calculus II (QR) (4)
- [[Wrtg 3012 or 3014 or 3015 (CW) (3)]]
- [[Social/Behavioral Science (BF): (3)]]

Year 2

Fall Semester (17 credits)

- CS 2420, Algorithms/Data Struct. (4)
- Math 3070, Applied Statistics 1 (4)
- Math 2270, Linear Algebra (4)
- ELEC:[ATMOS 3000, Professional Dev in Atm. Sci.(2)] [[Humanities (HF):_(3)]]

Spring Semester (16 credits)

- CS 2100, Discrete Structures (3)
- DS 2500, Data Wrangling (3)
- Math 3080, Applied Statistics 2 (4)
- [[Fine Arts (FF): (3)]]
- [[Elective]] (3)

Year 3

Fall Semester (16 credits)

- DS 3190, Foundations of Data Analysis (3)
- CS 3500, Software Practice I (4)
- CS 5630, Visualization for Data Science (3)
- ELEC:[CS 3540, Human Computer Interactions_(3)] ELEC:[ATMOS 5340, Envir. Progr. & Data Analysis(3)]

Spring Semester (15 credits)

- CS 4150, Algorithms (3)
- DS 5140, Data Mining (3)
- DS 5530, Database Systems (3)
- ELEC:[ATMOS 5400, The Climate System (3)]
- [[Elective]] (3)

Year 4

Fall Semester (12 credits)

- DS 4940, Undergraduate Research (3)
- DS 5350, Machine Learning (3)
- [[CS 4962, Ethics in Data Science (BF?) (3)]]
- ELEC:[Math 5080, Statistical Inference 1 (3)]

Spring Semester (16 credits)

- DS 4970, Bachelors Thesis (3)
- ELEC:[Math 5090, Statistical Inference 2 (3)]
- ELEC:[CS 4300, Artificial Intelligence (3)]
- [[Fine Arts (FF): (3)]]
- [[Elective]] (4)

Example 4 year plan (Start with CS 1420)

Year 1

Fall Semester (14 credits)

- CS 1420, Object-Orient. Prog. (4)
- Math 1310, Engineering Calculus I (QR) (4)
- Wrtg 2010, Intermediate Writing (WR2) (3)
- [[American Institutions (AI) (3)]]

Spring Semester (17 credits)

- CS 2420, Algorithms/Data Struct (4)
- DS 2500, Data Wrangling (3)
- Math 1320, Engineering Calculus II (QR) (4)
- [[Wrtg 3012 or 3014 or 3015 (CW) (3)]]
- [[Fine Arts (FF): (3)]]

Year 2

Fall Semester (14 credits)

- CS 2100, Discrete Structures (3)
- Math 2270, Linear Algebra (4)
- Math 3070, Applied Statistics 1 (4)
- ELEC:[CS 3540, Human Computer Interactions_(3)]

Spring Semester (17 credits)

- CS 3500, Software Practice I (4)
- Math 3080, Applied Statistics 2 (4)
- [[Fine Arts (FF): (3)]]
- [[Elective]] (3)
- [[Elective]] (3)

Year 3

Fall Semester (15 credits)

- DS 3190, Foundations of Data Analysis (3)
- CS 4150, Algorithms (3)
- CS 5630, Visualization for Data Science (3)
- ELEC:[LING 4020, Introduction to Syntax (3)]
- [[DS 3390, Ethics in Data Science (BF?) (3)]]

Spring Semester (15 credits)

- DS 5140, Data Mining (3)
- DS 5530, Database Systems (3)
- ELEC:[CS 4300, Artificial Intelligence (3)]
- ELEC:[LING 5300, Computational Linguistics (3)]
- [[Humanities (HF): (3)]]

Year 4

Fall Semester (15 credits)

- DS 4800, Senior Capstone Design (3)
- DS 5350, Machine Learning (3)
- ELEC:[CS 5340, Natural Language Processing_(3)] [[Humanities (HF): (3)]]
- [[Elective]] (3)

Spring Semester (15 credits)

- DS 4850, Senior Capstone Project (3)
- ELEC:[BMI 6015, Applied Machine Learn. in BMI (3)]
- [[Social/Behavioral Science (BF): (3)]]
- [[Elective]] (3)
- [[Elective]] (3)