### Visualization and Visual Analytics for Built Environment

#### Year One

**Fall Semester**
- EN 1103: English Composition I
- MA 1713: Calculus I
- CSE 1284: Intro to Programming
- DSCI 2013: Data Science Literacy
- Lab Based Science

**Spring Semester**
- EN 1113: English Composition II
- MA 1723: Calculus II
- CSE 1384: Intermediate Programming
- DSCI 2012: Data Wrangling Lab
- Lab Based Science

#### Year Two

**Fall Semester**
- MA 2733: Calculus III
- CSE 2813: Discrete Structures
- DSCI 3013: Data Acquisition
- BIS 3233: Management Information Systems
- Humanities

**Spring Semester**
- MA 3123: Statistical Inference
- CSE 2383: Data Structures & Analysis of Algorithms
- DSCI 4013: Data Visualization
- PHI 1113: Intro to Logic
- Fine Art

#### Year Three

**Fall Semester**
- MA 3113: Intro to Linear Algebra
- CSE 4633: Artificial Intelligence
- DSCI 3022: Data Visualization Lab
  - Oral Communication Course
  - Social/Behavioral Science
  - 1 of 8 Fundamental Courses

**Spring Semester**
- MA 4523: Intro to Probability
- CSE 4503: Database Management Systems
- DSCI 3012: Description, Analysis & Inference Lab
  - Written Communication Course
  - 2 of 8 Fundamental Courses
  - 3 of 8 Fundamental Courses

#### Year Four

**Fall Semester**
- CSE 3763: Legal & Ethical Issues in Computing
- DSCI 3032: Artificial Intelligence Lab
  - 4 of 8 Fundamental Courses
  - 5 of 8 Fundamental Courses
- DSCI 4553: Senior Capstone One

**Spring Semester**
- DSCI 2022: Cloud, Quantum & High Perf Computing Lab
  - 6 of 8 Fundamental Courses
  - 7 of 8 Fundamental Courses
  - 8 of 8 Fundamental Courses
- DSCI 4663: Senior Capstone Two
**Fundamental Courses (Choose 8):**

- ART 1123 Design I (2D)
- ART 2803 Intro to Comp. Art
- ART 2813 Intermediate Computing for Design
- ART 4813 Multimedia I
- BCS 2313 Virtual Design & Construction
- ID 3603 Digital Design for Interiors
- ID 3363 3D CAD Modeling
- ARC 2713 Passive Bldg. Systems
- ARC 3723 Active Bldg. Systems
- ARC 4633 Architecture and Virtual Spaces