

Bachelor of Science in Data Science Sample Schedule of Classes (121 credits)

| | Fall 1 | Spring 1 | Fall 2 | Spring 2 | Fall 3 | Spring 3 | Fall 4 | Spring 4 |
|--------------------------|---------------------------------|------------------------------------|--|--|-------------------------------|------------------------|------------------------|------------------------|
| Foundation | Freshman Seminar 1 | Freshman Seminar 2 | Armenian Language & Literature 1 | Armenian Language & Literature 2 | Armenian History 1 | Armenian History 2 | | |
| Data Science Core | CS100 Calculus 1 | CS101 Calculus 2 | CS102 Calculus 3 | ENGS211 Numerical Methods | | | | DS299 Capstone |
| | CS111 Discrete Math | BUS101 Introduction to Business | CS107 Probability | CS108 Statistics 1 | DS110 Statistics 2 | | | |
| | CS110 Intro to Computer Science | DS120 Programming for Data Science | CS104 Linear Algebra | DS205 Databases and Distributed Systems | CS246 Artificial Intelligence | | | |
| | | | DS115 Data Structures/ Algorithms for Data Science (4) | DS150 Physics & Chemistry in Life Sciences | DS116 Data Visualization | CS251 Machine Learning | | |
| Gen-Ed | <i>Gen-Ed 1</i> | <i>Gen-Ed 2</i> | | <i>Gen-Ed 3</i> | | | <i>Gen-Ed 4</i> | <i>Gen-Ed 5</i> |
| | | | | | | | | <i>Gen-Ed 6</i> |
| Free Electives | | | | | | | <i>Free Elective 1</i> | <i>Free Elective 3</i> |
| | | | | | | | <i>Free Elective 2</i> | |

Tracks

| | | | | | | | | |
|---------------------------------|-----------|-----------|-----------|-----------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| Bioinformatics Track | | | | | DS151 Cell & Molecular Biology | DS211 Intro to Bioinformatics | DS215 Systems Biology | <i>Bioinformatics Elective 2</i> |
| | | | | | | DS213 Computational Biology | <i>Bioinformatics Elective 1</i> | |
| Total Credits | <u>15</u> | <u>15</u> | <u>16</u> | <u>18</u> | <u>15</u> | <u>12</u> | <u>15</u> | <u>15</u> |
| Business Analytics Track | | | | | Business Analytics | DS206 Business Intelligence | DS223 Marketing Analytics | <i>Business Analytics Elective 2</i> |
| | | | | | | DS207 Time Series Forecasting | <i>Business Analytics Elective 1</i> | |
| Total Credits | <u>15</u> | <u>15</u> | <u>16</u> | <u>18</u> | <u>15</u> | <u>12</u> | <u>15</u> | <u>15</u> |