

Bachelor of Science in Data Science and General Education Requirements – 121 credits

General Education (GE) (15 courses, 45 credits) <i>Complete information about General Education requirements can be found at http://aua.am/general-education-at-aua</i>	DS Major Core (16 courses, 52 credits)	Business Analytics (BA) Track (3 courses +2 Track Electives, 15 credits)	Free Electives (3 courses, 9 credits)		
Foundation Requirements (6 courses, 18 credits) Freshman Seminar I Freshman Seminar II Armenian Language/Literature I Armenian Language/Literature II Armenian History I Armenian History II <i>All undergraduate students must take these 6 courses</i>	Calculus: Single Variable (4) Calculus: Multi Variable (4) Linear Algebra & Ordinary Differential Equations (4) Data Visualization with R Discrete Math Probability Statistics 1 Statistics 2 Numerical Analysis Introduction to Computer Science Object Oriented Programming Data Structures & Algorithms (4) Machine Learning Artificial Intelligence Databases and Distributed Systems Capstone	Track Requirements (3 courses) Business Intelligence Time Series Forecasting Analytics for Decision Making Track Electives (2 courses from following) <i>Business Data Management</i> <i>Marketing Analytics</i> <i>eCommerce</i> <i>Stochastic Modeling</i>	Any three additional courses offered at AUA		
Quantitative Science Requirements (3 courses, 9 credits) <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> BA Track Three courses coded as GE-QS, as a cluster </td> <td style="width: 50%; vertical-align: top;"> BI Track Physics & Chemistry in Life Sciences Cell & Molecular Biology + one upper division QS course </td> </tr> </table>		BA Track Three courses coded as GE-QS, as a cluster		BI Track Physics & Chemistry in Life Sciences Cell & Molecular Biology + one upper division QS course	<p style="text-align: center;">OR</p> Bioinformatics (BI) Track (3 courses + 2 Track Electives, 15 credits)
BA Track Three courses coded as GE-QS, as a cluster		BI Track Physics & Chemistry in Life Sciences Cell & Molecular Biology + one upper division QS course			
Social Science Requirements (3 courses, 9 credits) <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> BA Track Intro to Business Financial Accounting & Analysis + one upper division SS course </td> <td style="width: 50%; vertical-align: top;"> BI Track Three courses coded as GE-SS, as a cluster </td> </tr> </table>		BA Track Intro to Business Financial Accounting & Analysis + one upper division SS course		BI Track Three courses coded as GE-SS, as a cluster	Track Requirements (3 courses) Introduction to Bioinformatics Computational Biology Systems Biology Track Electives (2 courses from following) <i>Functional Genomics</i> <i>Bioinformatics Algorithms</i> <i>Structural Modeling</i> <i>Biotechnology</i>
BA Track Intro to Business Financial Accounting & Analysis + one upper division SS course		BI Track Three courses coded as GE-SS, as a cluster			
Arts & Humanities Requirements (3 courses, 9 credits) Three courses coded as GE-AH, as a cluster					