

BS in Data Science and General Education Requirements – 121 credits

General Education (GE) (13 courses, plus one QS and one SS from core)	DS Major Core (18 courses, 58 credits)	Business Analytics (BA) Track (3 courses +2 Track Electives, 15 credits)		Free Electives (3 courses, 9 credits)					
<u>Foundation Requirements</u> (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 1 Calculus 2 Calculus 3 Linear Algebra Data Visualization Discrete Math Probability Statistics 1 Statistics 2 Numerical Methods Introduction to Computer Science Programming for Data Science Data Structures/Algorithms for Data Science (4) Machine Learning Artificial Intelligence Databases and Distributed Systems Physics & Chemistry in Life Sciences Intro to Business Capstone	<u>Track Requirements (3 courses)</u> Business Intelligence Time Series Forecasting Marketing Analytics <u>Track Electives (2 courses from following)</u> <i>Business Data Management</i> <i>Urban Data Science</i> <i>eCommerce</i> <i>Stochastic Modeling</i>	AN D	<i>Any three additional courses offered at AUA</i>					
<u>Quantitative Science Requirements</u> (2 courses, 6 credits, + core course Physics & Chemistry in Life Sciences) <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center; border: none;">BA Track</td> <td style="width: 50%; text-align: center; border: none;">BI Track</td> </tr> <tr> <td style="border: none;"> Two courses coded as GE-QS, as a cluster (in the same QS theme of which one must be an upper division course) </td> <td style="border: none;"> Cell & Molecular Biology ----- + one upper QS course as a cluster (in any QS theme) </td> </tr> </table>		BA Track			BI Track	Two courses coded as GE-QS, as a cluster (in the same QS theme of which one must be an upper division course)	Cell & Molecular Biology ----- + one upper QS course as a cluster (in any QS theme)	OR	Bioinformatics (BI) Track (3 courses + 2 Track Electives, 15 credits)
BA Track		BI Track							
Two courses coded as GE-QS, as a cluster (in the same QS theme of which one must be an upper division course)	Cell & Molecular Biology ----- + one upper QS course as a cluster (in any QS theme)								
<u>Social Science Requirements</u> (2 courses, 6 credits, + core course Intro to Business) <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center; border: none;">BA Track</td> <td style="width: 50%; text-align: center; border: none;">BI Track</td> </tr> <tr> <td style="border: none;"> Business Analytics for Data Science ----- + one upper SS course (in any SS theme) </td> <td style="border: none;"> Two courses coded as GE-SS, as a cluster (in the same SS theme of which one must be an upper division course) </td> </tr> </table>	BA Track	BI Track	Business Analytics for Data Science ----- + one upper SS course (in any SS theme)	Two courses coded as GE-SS, as a cluster (in the same SS theme of which one must be an upper division course)	AN D	<u>Track Requirements (3 courses)</u> Introduction to Bioinformatics Computational Biology Network and Systems Biology <u>Track Electives (2 courses from following)</u> <i>Functional Genomics</i> <i>Bioinformatics Algorithms</i> <i>Structural Modeling</i> <i>Biotechnology</i>			
BA Track	BI Track								
Business Analytics for Data Science ----- + one upper SS course (in any SS theme)	Two courses coded as GE-SS, as a cluster (in the same SS theme of which one must be an upper division course)								

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<p style="text-align: center;"><u>Arts & Humanities Requirements</u> (3 courses, 9 credits)</p> <p>Three courses coded as GE-AH, as a cluster, at least one of which must be upper division</p>				
<p style="text-align: center;"><u>Physical Education, First Aid, and Civil Defense Requirements</u></p> <p>FND 110 Physical Education – Four (4) semesters in the first two years FND 152 First Aid – One course. First semester. FND 153 Civil Defense One course. First semester.</p> <p>For complete information about AUA’s General Education program visit http://aua.am/gen-ed/</p>				