MATHEMATICS, B.A. FOR ASSOCIATE DEGREE FOR TRANSFER (ADT) STUDENTS

Code	Title	Units
Lower-Division Requirements		
Eighteen (18) units of transferred Mathematics [1]		18
Upper-Division Requirements		
MTH 3012	Number Theory with Proofs	2
MTH 3052	History of Mathematics	2
MTH 3083	Mathematical Probability and Statistics	3
MTH 4024	Real Analysis	4
or MTH 4044	Abstract Algebra	
MTH 4081	Senior Seminar in Computer Science	1
Choose one (1) course from the following:		3
MTH 3033	Differential Equations	
MTH 3043	Discrete Mathematics	
MTH 3073	Mathematical Modeling	
MTH 4013	Complex Analysis	
Choose one (1) sequence from the following:		3
HON 4098 and HON 4099	Honors Project I and Honors Project II	
MTH 4102 and MTH 4121	Independent Research in Mathematics I and Independent Research in Mathematics II	
MTH 4133	Service Learning in Mathematics	
Elective Courses		
Choose twelve (12) additional units from the following:		12
CSC 1043 and CSC 1043L	Introduction to Computer Programming and Introduction to Computer Programming Lab	
CSC 1054 and CSC 1054L	Objects and Elementary Data Structures and Objects and Elementary Data Structures Lab	
CSC 3003	Python and UNIX	
CSC 3011	Machine Learning and Multivariate Modeling in R	
CSC 3021	Computational Tools	
CSC 3031	Data Visualization and Communication with R	
HON 4098	Honors Project I	
HON 4099	Honors Project II	
MTH 3033	Differential Equations	
MTH 3043	Discrete Mathematics	
MTH 3073	Mathematical Modeling	
MTH 4002	Topics in Geometry	
MTH 4013	Complex Analysis	
MTH 4024	Real Analysis	
MTH 4044	Abstract Algebra	
MTH 4071	History of Mathematics Study Tour	
MTH 4091	Independent Study in Mathematics	
MTH 4092	Special Topics in Mathematics	
MTH 4102	Independent Research in Mathematics I	
MTH 4121	Independent Research in Mathematics II	
MTH 4133	Service Learning in Mathematics	
MTH 4162	Project for Data Analytics Minors I	
MTH 4171	Project for Data Analytics Minors II	
Total Units		**48**

[1] Transferred in from the community college; 4 units are FE.

Total Units for Degree: 48 (44 non-FE units)

Note(s): Associate Degree for Transfer (ADT) (https://pointloma-public.courseleaf.com/tug-catalog/colleges-schools-departments/adt/) students only.