

Mathematics B.S. Pure and Applied Concentration 2024-2025

This pathway assumes that students have completed three semesters of calculus including multivariate calculus, Discrete Math, and differential equations and linear algebra and computer programming

Fall Junior Courses (16 units)	Course or GE Title	Units	GE/Major
MATH 300 (fall only) (170 is prereq)	Major Proseminar	4	GWAR, Major
MATH 322	Foundations of Modern Math	4	Major
MATH 320	Applied Probability & Statistics	4	Major
MATH 361S or MATH/STAT Elective	Mathematic Tutors or MATH/STAT elec	4	Conc (UDSL)
Spring Junior Courses (15 units)	Course or GE Title	Units	GE/Major
MATH 330 (Spring only)	Advanced Linear Algebra	4	Major
MATH 362S or MATH/STAT Elective		4	Conc
MATH 420 (Fall only)	Mathematical Analysis	4	Major
SPAN 340 or 350 or JAPN 340 or 350	UD C with World Culture & languages	3	UDC, WCL
Fall Senior Courses (15 units)	Course or GE Title	Units	GE/Major
MATH 410 (fall only)	Modern Algebra I	4	Major
MATH 421 or MATH/STAT Elective	Math Analysis II or MATH/STAT elec	4	Major
STAT 310 or Any Approved Course	Data Visualization, upper-division Math/Sci GE area B	3	UDB
MATH 326 (fall only)	History of Mathematics	4	Concentration
Spring Senior (14 units)	Course or GE Title	Units	GE/Major
MATH 400 (300 is prereq)	Capstone Seminar	4	Major
HCOM 353 or HCOM 369 or SBS 350 (or any UDD if US History complete)	UD Social Science with US History and CSUMB Ethnic Studies* requirement	3	UDD, US1, ES*
MATH 411 or MATH/STAT elective #3	Modern Algebra II or MATH/STAT elec.	4	Concentration
Elective or any missing GE or CSU requirement	free elective or req course to reach 120	3	Elective
MATH (Pure and Applied) Transfer:		60	

***NOTE:** Transfer students with catalog rights to a GE catalog prior to fall 2021 must complete CSUMB's Ethnic Studies (ES) requirement