

Fall 2023 Course Offering				
Course #	Title	Note	Note	Who should take
MA120	Intro to STEM Math	4 credits	Not open to students who have MA131, MA132 or MA181. Cannot receive credits for both MA120 and MA180.	Freshman
MA131	Calculus I	Co-req: MA41		
MA132	Calculus II	Co-req: MA42, pre-req: MA131	Students repeating MA132 need to be in the repeat section	
MA180	Intro College Math	4 credits	Not available for students who have credits for 120, 181, 131 or 132.	
MA181	Basic Calculus	Pre-req: MA180 or MA120		
MA200	Intro Math Modeling & Software	Pre-req: MA131	Fill up quickly, required for MA, AMS and DS	
STAT282	General Statistics		not open to student who have taken or are taking MA132	
MA211	Discrete Math & Proof	Pre-req: MA132, C2	Required for MA, AMS, NEED TO TAKE IT DURING SOPHOMORE TO leave more options for future	Sophomore
MA231	Calculus III	Pre-req: MA132	Required for MA, AMS. Cannot receive credits for both MA230 and MA231.	
MA232	Elementary Differential Eq	Pre-req: MA132	Required for MA, AMS	
STAT383	Probability and Statistics	Pre-req: MA132	Weaker version of STAT389. Students may not enroll in STAT 383 and STAT389	
STAT389	Prob & Stat with Mult Analysis	Pre-req: MA230 or MA231	Better version of STAT 383. Students may not receive credit for both STAT 383 and STAT 389	
STAT385/585	Bayesian Data Analysis	Pre-req: STAT383 or MA/STAT381 or by instructor consent	Students considering graduate school can/should register STAT585 instead of STAT385	Junior or Senior
STAT488	Statistics Projects	1-3 credits	Need to talk to Prof. Skufca or Prof. Mondal to register	
MA311	Abstract Algebra	Pre-req: MA211, C1	Only offers once every 2 years. Take this or MA321 if you are MA major.	
MA/PH315	Intro to Complex Networks	Pre-req: MA132	Second time offering	
MA321	Advanced Calculus I	Pre-req: MA231 and MA211, C1	Required for MA, only offers fall semesters. This course is required for MA322, take it NOW if you can & you plan on taking MA322 later.	
MA330	Adv Engineering Math	Pre-req: MA231 and MA232		
MA339	Applied Linear Algebra	Pre-req: MA132	Required for MA, AMS and DS. Offers every semester.	

MA/CS345/CS541	Automata Thoery & Formal Lang	Pre-req: CS142, EE262, or EE361, and MA211		
MA377	Numerical Methods	Pre-req: MA230 or MA231, C2, with Lab	Required for AMS major.	
MA401	Direct Study in Math			
MA405	Direct Study in Applied Math			
MA/CS447	Computer Algorithms	Pre-req: CS344 and MA211		
MA/CS449	Computational Learning	Pre-req: CS344 and CS345, or consent of the instructor		
MA497	Undergraduate Research			
MA499	Professional Experience	0 credits	Graduating seniors need to enroll in this course to fulfill professional experience requirement, form is attached	<b>Graduate Courses</b>
MA522	Classical Real Analysis			
MA533	Ordinary Diff Equations			
MA573	Matrix Theory and Computations			
MA/STAT381,MA/STAT581	Probability	NO MA381?	Required for IMA major Stat option. Students considering graduate school can/should register STAT581 instead of	
DS/MA241	Introduction to Data Science	Co-req: STAT282 or STAT383, or STAT318, or STAT389	Cross listed as MA241. Count toward MA credits.	
IS110	Int to Bus Intel and Data Anal	Pre-req: freshman or sophomore standing		<b>IS Courses</b>
IS301	Applied Data Analytics	Pre-req: IS110	EM301	
IS314	Database Design & Management		EM314	
IS400	Process and Sys Anal and Model	Pre-req: IS237, or CS141 or EE261		
IS426	Big Data Architecture	Pre-req: IS211& IS314, & IS237, CS141, or EE261 or IS110		
IS428	Info Sys for Supply Chain Mgmt	Pre-req: OM331		
IS605	Information Systems		IS606	
EC150	Principles of Microeconomics		Students may not receive credits for both EC150 and EC350.	<b>EC Courses</b>
EC200	Engineering Economics	Pre-req: EC150 or EC151	EC150+EC200=EC350	
EC311	Intro to Econometrics	Pre-req: MA181 and STAT282		
EC313	Mathematical Economics	Pre-req: EC150, EC151, MA132, C2		
EC350	Economic Prin & Eng Econ	Pre-req: sophomore standing		
EC357	Intermediate Microeconomics	Pre-req: EC/EM150 or EC350		
EC370	Economics of Innovation	Pre-req: sophomore standing and EC150		
EC451	Industrial & Supply Chain Econ	Pre-req: EC150 or EC350 and MA181		