

**Applied Math for the Life & Social Sciences Course List - Spring 2023**

**ASU School of Human Evolution and Social Change**

Advising website: <https://shesc.asu.edu/student-life/undergraduate-advising> • E-mail: [shesc.undergrad@asu.edu](mailto:shesc.undergrad@asu.edu)

Last updated 09/22/2022. **Subject to change.** Please check the Spring 2023 schedule of classes for latest updates.

Requirement	Course	Title	Units	Dates	Days	Start	End	General Studies*	Instructor
Intro Class	SOS 100	Introduction to Applied Mathematics for the Life and Social Sciences	3	A, B, & C	Varies	Varies	Varies	MA	Varies
Life Sciences	ASB 363	From Cells to Society: Understanding Complexity (CX w/BIO 363 & SOS 363)	3	01/09 - 02/28 (A)	iCourse	iCourse	iCourse		Anderies
	ASM 342	Evolution of Human Behavior	3	01/09 - 04/28 (C)	T Th	9:00 AM	10:15 AM		Mathew
	BIO 302	Cancer--Mother of All Diseases	3	01/09 - 04/28 (C)	M W	4:30 PM	5:45 PM	L	Compton
	BIO 321	Introductory Ecology Laboratory	3	03/13 - 04/28 (B)	iCourse	iCourse	iCourse		Ziemmeck
	BIO 415	Statistical Models for Biology	4	01/09 - 04/28 (C)	Varies	Varies	Varies		Pfeifer
	BIO 494	Topic: Data Analysis and Visualization in R**	3	03/13 - 04/28 (B)	iCourse	iCourse	iCourse		Snyder-Mackle
	BIO 494	Topic: Data Analysis in Neuroscience** (CX with MAT 494 of same title)	3	01/09 - 04/28 (C)	T Th	Noon	1:15 PM		Crook
	DAT 494	Topic: Exploration and Analysis of Environmental Data**	3	01/09 - 04/28 (C)	T Th	1:30 PM	2:45 PM		Eikenberry
	HCD 300	Biostatistics	3	01/09 - 04/28 (C)	Varies	Varies	Varies	CS	Varies
	HEP 444	Epidemiology**	3	03/13 - 04/28 (B)	iCourse	iCourse	iCourse		Staff
MAT 494	Topic: Ecological Modeling**	3	01/09 - 04/28 (C)	T Th	9:00 AM	10:15 AM		Kang	
Social Sciences	ASB 394	Topic: Statistics for Social Scientists	3	01/09 - 02/28 (A)	iCourse	iCourse	iCourse		York
	ASM 345	Disease & Human Evolution ( <b>preferred class: also fulfills UD Sci &amp; Soc req</b> )	3	01/09 - 04/28 (C)	M W F	11:15 AM	12:05 PM		Stone
	GCU 351	Population Geography	3	03/13 - 04/28 (B)	iCourse	iCourse	iCourse	SB & G	Connor
	HEP 444	Epidemiology**	3	03/13 - 04/28 (B)	iCourse	iCourse	iCourse		Staff
	JUS 301	Research in Justice Studies	3	A & C	Varies	Varies	Varies	SB	Broberg
	JUS 302	Statistical Analysis for Justice Studies	3	03/13 - 04/28 (B)	iCourse	iCourse	iCourse	CS	Lopez
	POS 301	Empirical Political Inquiry (CX with SGS 305)	3	A & C	Varies	Varies	Varies	SB	Varies
	POS 401	Political Statistics (CX with SGS 305)	3	A, B, & C	Varies	Varies	Varies	CS	Varies
	POS 485	Political Economy	3	01/09 - 04/28 (C)	Varies	Varies	Varies	SB	Varies
	SOC 331	Environmental Sociology	3	01/09 - 04/28 (C)	T Th	Noon	1:15 PM		
SOC 390	Social Statistics I	3	01/09 - 04/28 (C)	T Th	Varies	Varies	CS	Varies	
SOC 391	Research Methods	3	01/09 - 04/28 (C)	T Th	Varies	Varies	L or SB	Varies	
Applied Math	AML 254	Intro to Dynamics and Control in the Biological and Social Sciences**&***	3	01/09 - 04/28 (C)	T Th	3:00 PM	4:15 PM		Staff
	DAT 301	Exploring Data in R and Python**	3	B & C	Varies	Varies	Varies		Varies
	MAT 300	Mathematical Structures	3	01/09 - 04/28 (C)	Varies	Varies	Varies	L	Varies
	MAT 343	Applied Linear Algebra ( <b>preferred class: also fulfills AMLSS pre-req</b> )**	3	A, B, & C	Varies	Varies	Varies		Varies
	MAT 371	Advanced Calculus I	3	01/09 - 04/28 (C)	Varies	Varies	Varies		Varies
	MAT 421	Applied Computational Methods	3	01/09 - 04/28 (C)	Varies	Varies	Varies		Varies
	MAT 451	Mathematical Modeling	3	01/09 - 04/28 (C)	T Th	Noon	1:15 PM	CS	Wirkus
	MAT 494	Topic: Computational Methods for Image Processing**	3	01/09 - 04/28 (C)	T Th	10:30 AM	11:45 AM		Espanol
	MAT 494	Topic: Data Analysis in Neuroscience** (CX with BIO 494 of same title)	3	01/09 - 04/28 (C)	T Th	Noon	1:15 PM		Crook
MAT 494	Topic: Ecological Modeling**	3	01/09 - 04/28 (C)	T Th	9:00 AM	10:15 AM		Kang	
STP 494	Topic: Applied Machine Learning with R and Python**	3	01/09 - 04/28 (C)	T Th	1:30 PM	2:45 PM		McCulloch	

\* For more information about General Studies requirements, please see: [https://catalog.asu.edu/ug\\_gsr](https://catalog.asu.edu/ug_gsr)

\*\* If enrolling in one of these classes, please e-mail [shesc.undergrad@asu.edu](mailto:shesc.undergrad@asu.edu) once you have registered to have that course "placed" on your DARS.

\*\*\* May need departmental consent to enroll. E-mail [shesc.undergrad@asu.edu](mailto:shesc.undergrad@asu.edu) to request an override & please be sure to include your 10-digit ASU ID # in that request e-mail