

MIT-WHOI Joint Program Summer 2020 Math Refresher

Topic	Date	Instructor	Description
Pre-calc	7/10	Pete Roemer	algebra, transcendentals, trigonometry, vectors
Calculus I	7/13	Noah Germolus	integration and differentiation, Taylor series?
Calculus II	7/15	Jing He	multivariate, Green's theorem, Gauss theorem,
Linear Algebra	7/17	Kevin Doherty	matrix operations, matrix properties, eigenvalues/vectors
ODE I	7/20	Adrian Garcia	1st & 2nd order linear ODE'ss
ODE II	7/21**	Bethany Fowler	systems of ODE's
PDE	7/24	Mason Rogers	separation of variables, method of characteristics
MATLAB	7/27	Morgan Blevins	if-statements, for-loops, matrix operations
Python	7/29	Stewart Jamieson	installation, syntax, matrix operations
Prob & Stats	7/31	Arianna Krinos	standard deviation, Gaussian distribution, central limit theorem
Signal Proc	8/3	Rachel Kahn	Fourier transform, filtering
Data Analysis	8/5	Daniel Duane	functions, plotting, etc.
**scheduled for a Tuesday to accommodate instructor schedule			