

SEAS MATHEMATICS ELECTIVE (EUMA)

Code	Title	Course Units
AMCS 5461	Advanced Applied Probability	1
AMCS 6081	Analysis	1
AMCS 6091	Analysis	1
AMCS 6481	Probability Theory	1
CIS 1600	Mathematical Foundations of Computer Science	1
CIS 2610	Discrete Probability, Stochastic Processes, and Statistical Inference	1
CIS 3333	Mathematics of Machine Learning	1
ENM 2510	Analytical Methods for Engineering	1
ENM 3600	Introduction to Data-driven Modeling	1
ENM 3750	Biological Data Science I - Fundamentals of Biostatistics	1
ENM 5020	Numerical Methods and Modeling	1
ENM 5030	Introduction to Probability and Statistics	1
ENM 5100	Foundations of Engineering Mathematics - I	1
ENM 5110	Foundations of Engineering Mathematics - II	1
ENM 5200	Principles and Techniques of Applied Math I	1
ENM 5400	Topics In Computational Science and Engineering	1
ESE 2030	Linear Algebra with Applications to Engineering and AI	1
ESE 3010	Engineering Probability	1
ESE 4020	Statistics for Data Science	1
LGIC 1710	Introduction to Logic	1
LGIC 2100	Discrete Mathematics I	1
LGIC 2200	Discrete Mathematics II	1
MATH 1400	Calculus, Part I	1
MATH 1410	Calculus, Part II	1
MATH 1610	Honors Calculus	1
MATH 2020	Proving Things: Analysis	1
MATH 2030	Proving things: Algebra	1
MATH 2400	Calculus, Part III	1
MATH 2410	Calculus, Part IV	1
MATH 2600	Honors Calculus, Part II	1
MATH 2989	Study Abroad	1
MATH 2999	Transfer and Credit Away	1
MATH 3120	Linear Algebra	1
MATH 3130	Computational Linear Algebra	1
MATH 3140	Advanced Linear Algebra	1
MATH 3200	Computer Methods in Mathematical Science I	1
MATH 3400	Discrete Mathematics I	1
MATH 3410	Discrete Mathematics II	1
MATH 3500	Number Theory	1
MATH 3600	Advanced Calculus	1
MATH 3610	Advanced Calculus	1
MATH 3700	Algebra	1
MATH 3710	Algebra	1
MATH 4100	Complex Analysis	1
MATH 4200	Ordinary Differential Equations	1
MATH 4250	Partial Differential Equations	1
MATH 4320	Game Theory.	1
MATH 4600	Topology	1
MATH 4650	Differential Geometry	1
MATH 4800	Topics in Modern Math	1
MATH 4990	Supervised Study	0-1
MATH 5000	Topology	1
MATH 5010	Differential Geometry	1
MATH 5020	Abstract Algebra	1
MATH 5030	Abstract Algebra	1
MATH 5040	Graduate Proseminar in Mathematics	1
MATH 5050	Graduate Proseminar in Mathematics	1
MATH 5080	Advanced Analysis	1
MATH 5090	Advanced Analysis	1
MATH 5120	Advanced Linear Algebra	1
MATH 5130	Computational Linear Algebra	1
MATH 5200	Selections from Algebra	1
MATH 5460	Advanced Applied Probability	1
MATH 5600	Selections from Geometry and Topology	1
MATH 5610	Selections from Geometry and Topology	1
MATH 5700	Logic and Computability 1	1
MATH 5710	Logic and Computability 2	1
MATH 5800	Combinatorial Analysis	1
MATH 5810	Topics in Combinatorial Theory	1
MATH 5999	Independent Study	1-4
MATH 6000	Topology and Geometric Analysis	1
MATH 6010	Topology and Geometric Analysis	1
MATH 6020	Algebra	1
MATH 6030	Algebra	1
MATH 6080	Analysis	1
MATH 6090	Analysis	1
MATH 6120	Selections from Algebra	1
MATH 6180	Algebraic Topology, Part I	1
MATH 6190	Algebraic Topology, Part I	1
MATH 6200	Algebraic Number Theory	1
MATH 6210	Algebraic Number Theory	1
MATH 6220	Complex Algebraic Geometry	1
MATH 6230	Complex Algebraic Geometry	1
MATH 6240	Algebraic Geometry	1
MATH 6250	Algebraic Geometry	1
MATH 6260	Commutative Algebra	1
MATH 6280	Homological Algebra	1
MATH 6290	Homological Algebra	1
MATH 6420	Topics in Partial Differential Equations	1
MATH 6440	Partial Differential Equations	1

MATH 6450	Partial Differential Equations	1
MATH 6480	Probability Theory	1
MATH 6520	Operator Theory	1
MATH 6540	Lie Groups	1
MATH 6550	Lie Groups	1
MATH 6560	Representation of Continuous Groups	1
MATH 6600	Differential Geometry	1
MATH 6610	Differential Geometry	1
MATH 6710	Topics in Logic	1
MATH 6940	Mathematical Foundations of Theoretical Physics	1
MATH 6950	Mathematical Foundations of Theoretical Physics	1
MATH 6982	Representation of Continuous Groups	1
MATH 7020	Topics in Algebra	1
MATH 7200	Advanced Number Theory	1
MATH 7210	Advanced Number Theory	1
MATH 7240	Topics in Algebraic Geometry	1
MATH 7300	Topics in Algebraic and Differential Topology	1
MATH 7310	Topics in Algebraic and Differential Topology	1
MATH 7480	Topics in Classical Analysis	1
MATH 7520	Topics in Operator theory	1
MATH 7530	Topics in Operator Theory	1
MATH 7600	Topics in Differential Geometry	1
MATH 7610	Topics in Differential Geometry	1
MATH 8200	Algebra Seminar	1
MATH 8300	Geometry-Topology Seminar	1
MATH 8310	Geometry-Topology Seminar	1
MATH 8710	Logic Seminar	1
MATH 8810	Combinatorics Seminar	1
PHIL 1710	Introduction to Logic	1
PHIL 4723	Introduction to Mathematical Logic	1
PHIL 6721	Logic and Computability 1	1
PHIL 6722	Logic and Computability 2	1
STAT 4300	Probability	1
STAT 4310	Statistical Inference	1
STAT 4320	Mathematical Statistics	1
STAT 4330	Stochastic Processes	1
STAT 9300	Probability Theory	1