MATH — Bachelor of Science in Mathematics Specialization in Applied Mathematics — TYPICAL 4 YEAR PROGRAM OF STUDY — 2020-2021

DEGREE REQUIREMENTS

Credits: minimum of 180 credits

Credits in major: 89-93

GPA cumulative minimum: 2.5

GPA major minimum: 2.5

CURRICULUM NOTES

- *Assumes trigonometry (MATH 1022) not needed due to placement exam or college credit
- Assume placement into MATH 1334 by SAT/ACT/SU math placement exam or college credit
- Cognate electives include computer science, economics, and/or natural science approved by advisor. Must include at least one CPSC applications or programming course.
- MATH 4990 will be waived for students completing NSF REU experience, senior design project, or other approved research project in another department.
- With chair approval, 10 credits upper division work in computer science or natural science may be substituted for 10 credits in mathematics

MATH 3001 – Math Communication is highly recommended and can count as a MATH elective

For complete information on courses, pre-requisites, etc., use this information in conjunction with the online Catalog (http://catalog.seattleu.edu/) for the current year.

The example below assumes you have completed no degree requirements. Your personal program of study may vary from this due to prior educational experience or individual goals.

[P] Indicates prerequisite required for course [C] Indicates co-requisite required for course

	FALL		WINTER		SPRING	
	COURSE	CREDITS	COURSE	CREDITS	COURSE	CREDITS
FRESHMAN	[P]MATH 1334 -- Calculus I ([C] MATH 1022 Trig must be	5	[P]MATH 1335 – Calculus II	5	[P]MATH 1336 – Calculus III	5
	UCOR 1XXX University Core	5	[P]PHYS 1210 /[C]1211—Mechanics/Mechanics Lab	5	Cognate Elective	5
	UCOR 1XXX University Core	5	UCOR 1XXX University Core	5	UCOR 1XXX University Core	5
OPHOMORE	[P]MATH 2330 -- Multivariable Calculus	3	[P]MATH 2340 – Differential Equations	4	[P]MATH 3000 – Intro to Advanced Mathematics	5
	[P]MATH 2320 – Linear Algebra	3	Cognate Elective (e.g. CPSC 1220)	5	[C]MATH 3001 – Math Communication	2
	UCOR 2XXX University Core	5	General Elective	7	UCOR 2XXX University Core	5
	General Elective	5			General Elective	5
JUNIOR	[P]MATH 4421 –Abstract Algebra I	5	[P]MATH 3440 -- Nonlinear Systems and Modeling	5	[P]MATH 4440 -- Applied Fourier Analysis	5
	Or [P]MATH 4431 – Real Analysis I		Or [P]MATH 3450 – Numerical Methods		Or [P]MATH Elective (3000 level or above)	
	UCOR 2XXX University Core	5	UCOR 3XXX University Core	5	UCOR 3XXX University Core	5
	[P]MATH 3430 – Complex Variables	5	Cognate Elective	3	General Elective	5
	Or [P]MATH 3411 -- Probability					
SENIOR	MATH 4431 – Real Analysis I	5	[P]MATH 3450 – Numerical Methods	5	[P]MATH Elective (3000 level or above)	5
	Or MATH 4421 –Abstract Algebra I		Or [P]MATH 3440 -- Nonlinear Systems and Modeling		Or [P]MATH 4440 – Applied Fourier Analysis	
	[P]MATH 4481 – Senior Synthesis I	2	[P]MATH 4482 – Senior Synthesis II	2	[P]MATH 4482 – Senior Synthesis III	1
	[P]MATH 4990 – Undergraduate Research	1	[P]MATH 4990 – Undergraduate Research	1	[P]MATH 4990 – Undergraduate Research	1
	UCOR 3XXX University Core	5	General Elective	5	General Elective	10

CORE MODULE I REQUIREMENTS	CORE MODULE II REQUIREMENTS	CORE MODULE III REQUIREMENTS	
UCOR 1100 Academic Writing Seminar	UCOR 2100 Theological Explorations	UCOR 3100 Religion in a Global Context	
UCOR 1200 Quantitative Reasoning – **satisfied in major**	UCOR 2500 Philosophy of the Human Person	UCOR 3400 Humanities & Global Challenges	
UCOR 1300 Creative Expression and Interpretation	UCOR 2900-2940 Ethical Reasoning	UCOR 3600 Social Sciences & Global Challenges	
UCOR 1400 Inquiry Seminar in the Humanities		Or UCOR 3800 Natural Sciences Global Challenge	
UCOR 1600 Inquiry Seminar in the Social Sciences			
UCOR 1800 Inquiry Seminar Natural Sci. – **satisfied in major**			

SEATTLEU
COLLEGE OF SCIENCE AND ENGINEERING

Science and Engineering Advising Center
206.296.2500, Engineering 300
8:30am – 4:30pm Monday - Friday
http://www.seattleu.edu/scieng/advising/

This is a sample plan that is subject to change.
Work closely with your academic advisor to plan your program of study and the other co-curricular components of your educational plan.

Updated 6/15/2020