2022-2023 | BS.MATH.PURE - Bachelor of Science in Mathematics – Pure Math Specialization | Sample 4 Year Educational Plan

*This is a sample and not the only way to complete this plan. Number of credits are in parentheses. * Some classes have prerequisites.*

Year 1

Fall	Winter	Spring	Steps for Success
MATH 1334 - Calculus I (MATH 1022 Trig must be satisfied) (5)	MATH 1335 - Calculus II (5)	MATH 1336 – Calculus III (5)	☐ Meet with your academic advisor quarterly for registration approval ☐ Use MySeattleU Student Planning to plan your courses ☐ Work closely with your academic advisor on your educational plan
UCOR Module I (5)	Programming Elective – e.g., CPSC 1220 (5)	Cognate Elective (5)	
UCOR Module I (5)	UCOR Module I (5)	UCOR Module I (5)	

Year 2

Fall	Winter	Spring	Steps for Success
MATH 2320 – Linear Algebra (3)	MATH 2340 – Differential Equations (4)	MATH 3000 – Advanced Mathematics (5)	☐ Meet with your academic advisor quarterly for registration approval ☐ You are responsible for knowing information and tracking changes ☐ Sign up for academic support with Learning Assistance Programs
MATH 2330 -- Multivariable Calculus (3)	UCOR Module II* (5)	MATH 3001 – Math Communication: (2)	
UCOR Module I (5)	Cognate Elective (3)	UCOR Module II* (5)	
General Elective (5)		General Elective (5)	

Year 3

Fall	Winter	Spring	Steps for Success
MATH 4421 – Abstract Algebra I or MATH 4431 – Real Analysis I (5)	MATH 4422 – Abstract Algebra or MATH 4432 – Real Analysis II (5)	MATH Elective – 3000 level+ (5)	☐ Meet with your academic advisor quarterly for registration approval ☐ Explore career options at the "What Can I Do with This Major" page
MATH Elective – 3000 level+ (5)	MATH – Choose from list (5)	UCOR Module III* (5)	
UCOR Module II* (5)	General Elective (7)	General Elective (5)	

Year 4

Fall	Winter	Spring	Steps for Success
MATH 4481 – Senior Synthesis I (2)	MATH 4482 – Senior Synthesis II (2)	MATH 4483 – Senior Synthesis III (1)	☐ Apply for graduation on MySeattleU ☐ Finalize Education Plan ☐ Register for Math GRE (If considering graduate school) ☐ Attend career events ☐ Post Grad Planning
MATH 4421 – Abstract Algebra I or MATH 4431 – Real Analysis I (5)	MATH 4422 – Abstract algebra II or MATH 4432 – Real Analysis II (5)	MATH 4990 – Undergrad Research (1)	
MATH 4990 – Undergrad Research (1)	MATH 4990 – Undergrad Research (1)	General Electives (15)	
UCOR Module III* (5)	UCOR Module III* (5)		

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University Core Requirements

UCOR classes are listed in the sample plan by what module is recommend. See below for UCOR course titles listed by Module. See my.seattleu.edu for prerequisites and www.seattleu.edu/core for course descriptions. Honors and Matteo Ricci students have different Core requirements.

Core Module I Requirements

UCOR 1100 Academic Writing Seminar
~~***UCOR 1200** Quantitative Reasoning*~~ (*satisfied in major*)
UCOR 1300 Creative Expression & Interpretation
UCOR 1400 Inquiry Seminar in the Humanities
UCOR 1600 Inquiry Seminar in the Social Sciences
UCOR 1800 Inquiry Seminar in the Natural Sciences

Core Module II Requirements

UCOR 2100 Theological Explorations
UCOR 2500 Philosophy of the Human Person
UCOR 2900 Ethical Reasoning

Core Module III Requirements

UCOR 3100 Religion in a Global Context
UCOR 3400 Humanities & Global Challenges
UCOR 3600 Social Sciences & Global Challenges
or **UCOR 3800** Natural Sciences Global Challenge

Important Major Information

- Credits in Major Minimum: 83-88
- Overall Credits Minimum: 180
- GPA Major Minimum: 2.5
- GPA Cumulative Minimum: 2.5

Resources for Success

- Map out your own plan through My.SeattleU.edu
- Meet with a Career Coach from the Career Engagement Center
- Sign up for academic support with Learning Assistance Programs
- Explore career options at the "What Can I Do with This Major" page
- Learn more about academic advising on the Advising Services page

Notes

- Assumes trigonometry (MATH 1022) not needed due to placement exam or college credit
- Assumes 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 app 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
- Choose from: MATH 3430 Complex Variables, MATH 3411 Probability, MATH 3440 Nonlinear Systems & Modeling, MATH 3450 Numerical Methods, MATH 4440 Fourier Analysis
- MATH 3001 – Math Communication is highly recommended and can count as a math elective
- Up to 5 credits of Undergraduate Research or Directed Research may count as a math elective

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Science & Engineering Advising
se-adv@seattleu.edu

Seattle U Advising Services
http://www.seattleu.edu/advising