

# Applied Mathematics - Four Year Program - 2019-2020 Catalogue

Note: This is an *example of a* four year BSAM schedule.

Many courses are offered in other semesters. If you overload, withdraw, transfer, or fail courses, your semester schedule may need to be adjusted.

\* Indicates a course with a lab component.

	Fall	CR	Spring	CR	Summer	CR
Freshman Year 2019-2020 0-31 earned hours	MATH1750 Engineering Calculus I	4	MATH1850 Engineering Calculus II MATH1750/MATH1775 Prerequisite	4		
	MATH1550 Foundations of Applied Math	4	MATH2300 Discrete Math MATH1500 Prerequisite	4		
	PHYS1250 Engineering Physics I * MATH1750/MATH1775 Corequisite	4	PHYS1750 Engineering Physics II * PHYS1250/MATH1750 Prerequisite MATH1850/MATH1875 Corequisite	4		
	ENGLxxx English Sequence ENGL Sequence Prerequisite	4	ENGLxxx English Sequence ENGL Sequence Prerequisite	4		
	Total Semester Credits: 16		Total Semester Credits: 16			
Sophomore Year 2020-2021 32-63 earned hours	MATH2025 Multivariable Calculus MATH1850 Prerequisite	4	COMP1050 Computer Science II * COMP1000 or ELEC3150 Prerequisite	4	COOP3000 Pre-Cooperative Work Semester Optional	0
	MATH2500 Transition to Advanced Mathematics	4	MATH2500 Differential Equations MATH1850 Prerequisite	4		
	COMP1000 Computer Science I * HSS, HUMN, SS See below HSS, HUMN, and SS Elective Requirements	4	MATH2860 Linear Algebra and Matrix Theory MATH1850 Prerequisite HSS, HUMN, SS See below HSS, HUMN, and SS Elective Requirements	4		
		Total Semester Credits: 16		Total Semester Credits: 16		
Junior Year 2021-2022 64-95 earned hours	ELECTIVE Technical Elective MATH4400, MATH4575 or MATH4875 Requ'd	4	MATH3950 Numerical Analysis II MATH3900 Prerequisite	4	COOP3500 Cooperative Work Semester I Required	0
	MATH2100 Probability and Statistics for Engineers	4	MATH2200 Advanced Statistics Math2100 Prerequisite	4		
	MATH3900 Numerical Analysis I COMP1000/MATH1850 Prerequisite HSS, HUMN, SS See below HSS, HUMN, and SS Elective Requirements	4	ELECTIVE Technical Elective MATH4400, MATH4575 or MATH4875 Requ'd HSS, HUMN, SS See below HSS, HUMN, and SS Elective Requirements	4		
		Total Semester Credits: 16		Total Semester Credits: 16		
Senior Year 2022-2023 96+ earned hours	MATH 3700 Operations Research	4	COOP4500 Cooperative Work Semester II Required	0	MATH5000 Applied Math Final Year Design	4
	MATH4900 Partial Differential Equations MATH2500 Prerequisite	4			ELECTIVE Technical Elective MATH4400, MATH4575 or MATH4875 Requ'd	4
	ELECTIVE Technical Elective MATH4400, MATH4575 or MATH4875 Requ'd	4			HSS, HUMN, SS See below HSS, HUMN, and SS Elective Requirements	4
	Total Semester Credits: 12				Total Semester Credits: 12	
					Total Curriculum Credits: 120	

## HSS, HUMN, and SS Elective Requirements

HUMN	Humanities Elective
ELECTIVE	ENGL Sequence Prerequisite
SS	Social Science Elective
ELECTIVE	ENGL Sequence Prerequisite
HSS	Humanities or Social Science
ELECTIVE	Elective
HSS	ENGL Sequence Prerequisite Humanities or Social Science
ELECTIVE	Elective
HSS	ENGL Sequence Prerequisite Humanities or Social Science
ELECTIVE	Elective
	ENGL Sequence Prerequisite

## Additional BSAM Requirements

PUBLIC	LECTURE
WEBSITE	CREATED
POSTER	PRESENTATION

## Additional Information

For helpful CAS Registration Information go to [www.wit.edu/cas/registration-info.html](http://www.wit.edu/cas/registration-info.html).  
For important registration information, forms, deadlines and important academic dates, go to [www.wit.edu/ssc](http://www.wit.edu/ssc).  
For additional tracking sheets go to [www.wit.edu/cas/cas-tracking-sheets.html](http://www.wit.edu/cas/cas-tracking-sheets.html).  
For the Wentworth Catalog go to [www.wit.edu/catalog](http://www.wit.edu/catalog).

Advisor Signature: \_\_\_\_\_  
Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_