

# Applied Mathematics - Three Year Program - 2018-2019 Catalogue

Note: This is an example of a three 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 2018-2019 0-31 earned hours	MATH1750 Engineering Calculus I	4	MATH1850 Engineering Calculus II MATH1750/MATH1775 Prerequisite	4	COOP3000 Pre-Cooperative Work Semester Optional	0
	MATH1550 Foundations of Applied Math	4	MATH2300 Discrete Mathematics MATH1500 Prerequisite	4		
	PHYS1250 Engineering Physics I * MATH1750/MATH1775 Corequisite	4	PHYS1750 Engineering Physics II * PHYS1250/MATH1750 Prerequisite MATH1850/MATH1875 Corequisite	4		
	COMP1070 Computer Science I *	4	COMP1071 Computer Science II * COMP1070 Prerequisite	4		
	ENGLxxxx English Sequence ENGL Sequence Prerequisite	4	ENGLxxxx English Sequence ENGL Sequence Prerequisite	4		
	Total Semester Credits: 20		Total Semester Credits: 20			
Sophomore Year 2019-2020 32-63 earned hours	MATH2025 Multivariable Calculus MATH1850 Prerequisite	4	MATH2200 Advanced Statistics MATH2100 Prerequisite	4	COOP3500 Cooperative Work Semester I Required	0
	MATH2100 Probability and Statistics MATH1850 Prerequisite	4	MATH2500 Differential Equations MATH1850 Prerequisite	4		
	MATH2550 Mathematics MATH1500 Prerequisite	4	MATH2860 Linear Algebra & Matrix Theory MATH1850 Prerequisite	4		
	MATH3900 Numerical Analysis I COMP1250/MATH1850 Prerequisite	4	MATH3950 Numerical Analysis II MATH3900 Prerequisite	4		
	HSS, HUMN, SS See below HSS, HUMN, and SS Elective Requirements	4	HSS, HUMN, SS See below HSS, HUMN, and SS Elective Requirements	4		
	Total Semester Credits: 20		Total Semester Credits: 20			
Third Year 2020-2021	MATH3700 Operations Research MATH2100 Prerequisite	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 Req'd	4
	ELECTIVE Technical Elective MATH4400, MATH4575 or MATH4875 Req'd	4			ELECTIVE Technical Elective MATH4400, MATH4575 or MATH4875 Req'd	4
	ELECTIVE Technical Elective MATH4400, MATH4575 or MATH4875 Req'd	4			HSS, HUMN, SS See below HSS, HUMN, and SS Elective Requirements	4
	HSS, HUMN, SS See below HSS, HUMN, and SS Elective Requirements	4			HSS, HUMN, SS See below HSS, HUMN, and SS Elective Requirements	4
	Total Semester Credits: 20				Total Semester Credits: 20 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
	ENGL Sequence Prerequisite
	Humanities or Social Science
HSS	Elective
ELECTIVE	ENGL Sequence Prerequisite
HSS	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: \_\_\_\_\_