

# Applied Mathematics - Four Year Program - 2014-2015 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.  
Course numbers below are the new 4 digit numbers. Previous 3 digit requirements noted below. \* Indicates a course with a lab component.

	Fall	CR	Spring	CR	Summer	CR			
Freshman Year 2014-2015 0-31 earned hours	MATH1750 /MATH285	Engineering Calculus I	4	MATH1850 /MATH295	Engineering Calculus II MATH1750/MATH1775 Prerequisite	4			
	MATH1550 /MATH270	Foundations of Applied Math I	4	MATH1575 /MATH275	Foundations of Applied Math II	4			
	COMP1070 /COMP128	Computer Science I *	4	COMP1071 /COMP201	Computer Science II * COMP1070 Prerequisite	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 2015-2016 32-63 earned hours	MATH2025 /MATH515	Multivariable Calculus MATH1850 Prerequisite	4	MATH3700 /MATH310	Operations Research MATH2100 Prerequisite	4	COOP3000 Pre-Cooperative Work Semester Optional 0		
	MATH2100 /MATH505	Probability and Statistics MATH1850 Prerequisite	4	MATH2860 /MATH890	Linear Algebra and Matrix Theory MATH1850 Prerequisite	4			
	MATH2500 /MATH625	Differential Equations MATH1850 Prerequisite	4	PHYS1250 /PHYS310	Engineering Physics I * MATH1750/MATH1775 Corequisite	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: 16		Total Semester Credits: 16						
Junior Year 2016-2017 64-95 earned hours	MATH2300 /MATH410	Discrete Math MATH1500 Prerequisite	4	MATH3900	Introduction to Numerical Analysis COMP1250/MATH1850 Prerequisite	4	COOP3500 Cooperative Work Semester I Required 0		
	MATH2200 /MATH605	Advanced Statistics MATH2100 Prerequisite	4	ELECTIVE	Technical Elective	4			
	PHYS1750 /PHYS320	Engineering Physics II * PHYS1250/MATH1750 Prerequisite MATH1850/MATH1875 Corequisite	4	ELECTIVE	Technical Elective	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: 16		Total Semester Credits: 16						
Senior Year 2017-2018 96+ earned hours	MATH5000 /MATH690	Applied Math Final Year Design I	4	COOP4500	Cooperative Work Semester II Required	0	MATH5500 /MATH691	Applied Math Final Year Design II	4
	MATH4900	Partial Differential Equations MATH2500 Prerequisite	4				ELECTIVE	Technical Elective	4
	ELECTIVE	Technical Elective	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	ENGL Sequence Prerequisite
HSS	Humanities or Social Science Elective
ELECTIVE	ENGL Sequence Prerequisite
HSS	Humanities or Social Science Elective
ELECTIVE	ENGL Sequence Prerequisite

## 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: \_\_\_\_\_

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

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

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

Notes: Signature indicates review and understanding of remaining graduation requirements. Failure to complete courses as recommended may result in delay of graduation date.