MATHEMATICS ACADEMIC PLAN

This Academic Plan is a semester-by-semester plan for the full-time college-ready student. Part-time students should work with an advisor to customize to fit individual needs. Plan includes minimum 42 general education ![CORE 42] credit hours with MOTR CORE 42 completion, and minimum 62 total credit hours required for Associate of Arts (A.A.) transfer degree. Consider bachelor's degree requirements at transfer institutions and future career goals when selecting specific courses. See an advisor for assistance.

Academic Plan		Notes
Fall 1st Year	**Cr Hrs**	Semester 1
ENG101 English Composition I	3	ENG101 with grade of "C" or better is a pre-req for some next semester course work.
MTH180 Calculus I	5	MTH180 with grade of "C" or better is a pre-req for some next semester course work.
First Year Experience	1-3	COL101 and Reading Proficiency are pre-reqs for some next semester work.
Physical Science or Chemistry*	5	See MOTR CORE 42 list for additional choices
Humanities course (PHL 101 Logic recommended)	3	
Total Credit Hours	**17-19**	**Total Credit Hours**
Spring 1st Year	**Cr Hrs**	Semester 2
ENG102 English Composition II	3	
MTH185 Calculus II	5	MTH185 with a grade of "C" or better is a pre-req for some next semester course work.
CIS155 Intro to Computer Programming	3	
Constitution requirement	3	
Humanities course	3	
	17	**Total Credit Hours**

Fall 2nd Year	Cr Hrs	Semester 3
Biological Science*	3-5	
American History / American Government	3	
MTH 201 Calculus III	5	
MTH 172 Linear Algebra	3	
Social Science requirement*	3	
	17-19	**Total Credit Hours**

Spring 2nd Year	Cr Hrs	Semester 4
MTH205 Differential Equation	3	
Social Science requirement*	3	
Computer Literacy requirement	3	CIS125 fulfills Computer Literacy graduation requirement
Communications requirement	3	
Humanities course	3	
	15	**Total Credit Hours**

Program Description: The Mathematics department provides students with a strong mathematical background. This enables them to transfer to a four-year institution as juniors and to be successful in their pursuit of either a bachelor of science or a bachelor of arts in mathematics. Students desiring to teach mathematics at K-12 level, should see the Education Academic Plan.

Admission Requirements: Must meet first-semester course prerequisites.

Department Faculty Advisors: John Johny, Constance Kuchar, Dianne Marquart, Skyler Ross, Imran Shah and Lindsay Steighorst

Associate Dean: Maryanne Angliongto

Employment Outlook/Median Salary*:

Career	Degree Level Required	** Growth	Median Annual Salary
Mathematician	Masters	33%	$110,860
Post-Secondary Teachers	Master's/Ph.D.	12%	$80,560
Statistician	Master's	35%	$92,270
Actuaries	Bachelor's	24%	$111,030
Operations Research Analyst	Bachelor's	25%	$86,200
Market Research Analyst	Bachelor's	22%	$65,810
Financial Analyst	Bachelor's	6%	$83,660
High School Teachers	Bachelor's	8%	$62,870

Employment information based on current Bureau of Labor Statistics Occupational Outlook Handbook.
**Projected % of change in employment 2020-2030; the average for all occupations is 8%.*

Jefferson College Program Highlights:

Transfer Information: While Jefferson College has no formal transfer agreement in mathematics with four-year institutions, we do have general transfer guides for most four-year schools. Additional information regarding transfer agreements for individuals seeking a bachelor's in mathematics can be found by clicking here.