

Mathematics A.S. (MATS)

This program is intended for students with an interest and an aptitude in mathematics who plan to transfer to a four-year college or university to prepare for a baccalaureate degree in mathematics.

Upon successful completion of this program, graduates will be able to:

- demonstrate problem solving skills using calculus and analytic geometry.
- apply mathematics in real world settings throughout the required mathematics courses.
- apply graphing and numerical tools available on calculators, computers or other technologies.
- interconnect mathematical skills with other subject areas.

Students should consult the catalog of the four-year college or university to which he or she plans to transfer to ensure that degree requirements are being properly met. Transfer information for this program is on file in the Transfer and University Center. For more information, contact an academic advisor or counselor.

First Semester		Credits
CIS 155	Introduction to Computer Science – Structured Programming – C++	3.5
ENG 105	Research and Composition	3
MAT 191	Calculus and Analytic Geometry I	4
PHI 203	Introductory Logic	3
Elective ⁺	Humanities	3
		16.5
Second Semester		
ENG 106	Introduction to Literature	3
MAT 203	Discrete Mathematics	3
MAT 196	Calculus and Analytic Geometry II	4
PHY 210	General Physics I	4
		14
Third Semester		
MAT 201	Calculus and Analytic Geometry III	4
PHY 215	General Physics II	4
ENG 111	Speech	3
Elective*	Social Science	3
		14
Fourth Semester		
MAT 230	Differential Equations With Linear Algebra	4
PHI 205	Introduction to Ethics	3
Elective*	Social Science	3
Elective ⁺	General Education	6
		16
Credit Total		60.5

Requirements/Recommendations

*Social Science Elective must be chosen from the following list:

*ECO 201 and ECO 202 (recommended), PSC 141, PSY 140, PSY 145, PSY 240, PSY 242, SOC 150, SOC 151, SOC 258.

⁺MAT 150 recommended as a General Education Elective.

Prior Learning Assessment: Previous job training, certificates and work experience that may qualify for college credit (*see academic advisor*).

Gateway Courses: Based on placement testing in reading, writing and math, these prerequisite courses may have to be taken before placement in College English or Mathematics beginning the first semester and concurrently.

RSS 099	Basic Skills Reading	3
RSS 100	Critical Reading	3
ENG 099	Basic Skills Writing	3
ENG 100	Fundamentals of Writing	3
MAT 090	Mathematical Literacy	6
ESL 251	English for Academic Purpose	6
		(Required for ESL students only.)

Please note, taking gateway courses will increase your time for completion.