

MATHEMATICS

Program Code: M.MAT.AS

Associate in Science (A.S.)

Graduation requirement — 60 semester hours

The following curriculum emphasizes scientific and theoretical applications and is designed for students interested in transferring to a four-year institution to pursue a bachelor's degree in computer science or mathematics.

Students should plan their transfer programs with a Parkland academic success advisor or counselor and the catalog of the four-year college or university they plan to attend.

Program Notes*

- MAT 124 and MAT 125 are prerequisites for MAT 128.
- General Education Core Curriculum requirements for the Associate in Science (A.S.) degree do not fully satisfy the IAI General Education Core Curriculum (GECC) requirements. Additional courses to complete the GECC may be taken at Parkland or after transferring.
- Recommended courses are designed to facilitate completion of the A.S. degree and transfer into a four-year college or university with junior standing in a chosen academic path. Students are advised to follow the recommendations.

Suggested Full-time Sequence

FALL	SPRING
1st Semester	2nd Semester
MAT 128	MAT 129
ENG 101	COM 103
Soc/Beh Sci elec	ENG 102
Hum/FA elec	Soc/Beh Sci elec
	Phys/LS elec

FALL	SPRING
3rd Semester	4th Semester
MAT 228	MAT 229
CSC 123 or Gen elec	MAT 220
Phys/LS elec	Hum/FA elec
General elec	Phys/LS elec

General Education Core Courses (32–36 hours)

Cr. Hrs.

Communications (9)	
COM 103 Introduction to Public Speaking	3
ENG 101 Composition I	3
ENG 102 Composition II	3
Humanities/Fine Arts electives	6
• <i>Must choose one course from Humanities and one from Fine Arts</i>	
Social/Behavioral Sciences electives	6
• <i>Soc/Beh Sci courses must be from at least two disciplines</i>	
• <i>One course from Hum/Fine Arts or Soc/Beh Sci must fulfill the non-Western culture requirement</i>	
Mathematics elective	3–5
Recommended: MAT 128 Calculus and Analytical Geometry I (5)	
Life Sciences (laboratory-based) elective	4–5
Physical Sciences (laboratory-based) elective	4–5

A.S. Degree Requirement (7–8 hours)

Must include one additional mathematics and one additional physical or life science course.

Any AST, BIO, CHE, ESC, PHY, or SCI courses numbered 100 through 289 whose second digit is even, beyond the general education requirements in science, may fulfill the additional science course requirement.

Recommended: MAT 129 Calculus and Analytical Geometry II (4)

Recommended Courses (16 hours)

CSC 123 Computer Science I	4
MAT 220 Linear Algebra	
or MAT 200 Introduction to Discrete Mathematics	3
MAT 228 Calculus and Analytic Geometry III	4
MAT 229 Differential Equations and Introductory Matrix Theory	5

Electives (3 hours)

Select course as needed to meet 60-hour degree requirement.

Elective	3
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Total Semester Credit Hours 60–61