FOURTH SEMESTER

Complete 3–4 units from electives ***   3–4

Total units	**23–25**

**   MATH 130 may be taken in any semester; however, it should be noted that MATH 130 is a prerequisite for the elective MATH 140.

*** Electives: MATH 119, 140, 253, 254, 260.

To earn an associate degree, additional general education and graduation requirements must be completed. See page 59.

*   Students planning to transfer to a four-year college or university should complete courses specific to the transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center. See catalog TRANSFER COURSES INFORMATION section on page 43 for further information.

ASSOCIATE IN SCIENCE DEGREE

⚠ MATHEMATICS FOR TRANSFER

STUDENT TRANSFER ACHIEVEMENT REFORM (STAR) ACT (SB1440)

Associate Degree for Transfer
A Degree with a Guarantee.℠

TRANSFER PREPARATION * (MAJOR CODE: 01585)

Mathematics has become essential and pervasive in the workplace. Projections indicate that its use will expand as will the need for more workers with knowledge of college-level mathematics. In today's highly technological society, the study of mathematics has become increasingly important, particularly to computer science. Mathematics is a study that provides a foundation for problem solving and logical reasoning skills. It includes arithmetic, algebra, geometry trigonometry, calculus, statistics, and computer programming, etc. Mathematics is the science of numbers and their operations, interrelations, combinations, generalizations, and abstractions, In addition to college-level mathematics courses (numbered 100 or above) that will meet the lower-division needs of college transfer students, Southwestern College offers developmental courses consisting of arithmetic through intermediate algebra.

Program Student Learning Outcome Statement:

- Use the basic definitions, properties, theorems, and techniques of Calculus.

MATH 250	Analytic Geometry and Calculus I	5
MATH 251	Analytic Geometry and Calculus II	4
MATH 252	Analytic Geometry and Calculus III	4

Choose a minimum of 6 units with at least 3 units from Group A (3 units are required from Group A, no units are required from Group B, however all 6 units can come from Group A	6–7

Group A:

MATH 253	Introduction to Differential Equations OR	3
MATH 254	Introduction to Linear Algebra	3

Group B:

MATH 119	Elementary Statistics OR	4
MATH 260	Discrete Mathematics OR	3
PHYS 270	Principles of Physics I AND	3
PHYS 271	Principles of Physics Laboratory I	1

Total units	**19-20**

*   Students planning to transfer to a four-year college or university should complete courses specific to the transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center. See catalog TRANSFER COURSES INFORMATION section on page 43 for further information.

** The Mathematics Department recommends the MATH 119 be taken as an elective if it is not chosen from Group