AVIATION SCIENCE (AS DEGREE S0910)

Technology and Health Division
Degree S0910
This curriculum meets the requirements of the Federal Aviation Administration Air Traffic Collegiate Training Initiative (AT-CTI). Under an educational partnership agreement with the FAA, this CTI program prepares students for broad-based aviation careers. Students completing this CTI program may be recommended by the college for hiring by the FAA as air traffic controllers. There are no prerequisites or enrollment limitations.

This degree requires the completion of General Education coursework plus the following:

Required Courses

Course Prefix	Course Name	Units
Core Courses		
AERO 100	Primary Pilot Ground School	4
AERO 102	Aviation Weather	3
AERO 104	Federal Aviation Regulations	3
AERO 152	Air Transportation	3
AERO 200	Aviation Safety and Human Factors	3
AERO 250	Navigation	3
AERO 252	Instrument Ground School	3
AIRT 151	Aircraft Recognition and Performance	3
AIRT 201	Terminal Air Traffic Control	3
AIRT 203	Enroute Air Traffic Control	3
AIRT 251	Air Traffic Control Team Skills	1.5
Total Units		**32.5**

Recommended Electives

Course Prefix	Course Name	Units
AERO 150	Commercial Pilot Ground School	3
AERO 202	Aircraft and Engines	3
BUSM 60	Human Relations in Business	3

Program Learning Outcomes
Upon successful completion of this program, a student will be able to:

- Be familiar with how the National Airspace System has evolved into today's complex airspace environment; understand current air traffic control separation standards and procedures for both terminal and en route operations; apply those separation standards, procedures, and techniques in a computer simulated environment while being aware of emerging air traffic control technologies and automation.
- Recognize, identify, and remember a wide variety of aircraft including the manufacturer, Federal Aviation Administration identification code, aircraft performance characteristics, and how those characteristics are applied to meet en route and terminal separation standards in a computer driven simulated environment.
- Understand the importance of teamwork among co-workers, the various stages of team development, coping and performing techniques and how to apply them in a scenario-based working environment; recognize a variety of personality types and team behaviors toward becoming a skilled team player as applied to today's intense air traffic control working environment.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/instruction/outcomes/sloinfo.html) for this program.