

# Air Traffic Control Terminal

## Air Traffic Control Terminal Courses

### ATCT101 : Introduction to Air Traffic Control

Introduces students to the profession of air traffic control. The course covers the history, structure, rules, phraseology and organization of air traffic control. The course also includes the regulations that govern air traffic controllers, pilots and the National Airspace system. Additionally, the course covers basic aerodynamics, charts, navigation, flight instruments and the affects of weather on flying.

**Credits** 4

**Lecture Hours** 4

**Lab/Clinical/Field Study Hours** 0

### ATCT120 : Aviation Weather

Introduces students to the reading and interpretation of weather reports and charts as well as theories of meteorological processes and their impact on aviation. Students will analyze weather factors decisive to safe flight operations. Topics include but are not limited to aviation weather fundamentals, atmospheric circulation systems, aviation weather resources and weather hazards.

**Credits** 3

**Lecture Hours** 3

**Lab/Clinical/Field Study Hours** 0

### ATCT170 : ATC Regulations

Introduces students to the regulations, procedures and phraseology that govern Air Traffic Controllers and En Route sectors. Airport traffic control procedures, instrument operations, special VFR procedures and radar operations will be covered. Upon completion, students will become familiar with both the Terminal (Control Tower) and Radar (TRACON) environments.

**Credits** 4

**Lecture Hours** 4

**Lab/Clinical/Field Study Hours** 0

**Prerequisite Courses**

ATCT101: Introduction to Air Traffic Control

### ATCT220 : Control Tower Operations I

Course focuses on providing students with a hands-on learning experience in a control tower simulation under the supervision of faculty. Primary focus will be on the flight data, clearance delivery and ground control positions. This course prepares students for entry level training at the equivalent of a level 7 terminal facility.

**Credits** 6

**Lecture Hours** 6

**Lab/Clinical/Field Study Hours** 0

**Prerequisite Courses**

ATCT170: ATC Regulations

### ATCT225 : Terminal Radar I

Requires students to actively participate in structured scenarios designed to demonstrate the aptitude and skills necessary for initial developmental training at low level Terminal Radar Approach Control (TRACON) facilities, while providing students with the opportunity to actively apply the regulations, procedure and phraseology acquired in prerequisite courses.

**Credits** 4

**Lecture Hours** 4

**Lab/Clinical/Field Study Hours** 0

**Prerequisite Courses**

ATCT170: ATC Regulations

## ATCT280 : Control Tower Operations II

Course provides students with a hands-on learning experience in a control tower simulation under the supervision of faculty. It is a continuation of Control Tower Operations I. The Local Control position will be the primary focus of this course and, the course is designed to prepare students for entry-level training on the Local Control position at a terminal facility equivalent to level 7 operations.

**Credits** 6

**Lecture Hours** 6

**Lab/Clinical/Field Study Hours** 0

**Prerequisite Courses**

ATCT220: Control Tower Operations I

## ATCT285 : Terminal Radar II

A continuation of ATCT225-Terminal Radar I. Students participate in simulated air traffic control exercises under the supervision of faculty. The course is designed to develop more advanced skill levels in the application of air traffic control procedures pertinent to approach control facility operations. Students will actively apply regulations, procedures and phraseology within more complex situations equivalent to a level 7 TRACON facility.

**Credits** 4

**Lecture Hours** 4

**Lab/Clinical/Field Study Hours** 0

**Prerequisite Courses**

ATCT225: Terminal Radar I