

**AERONAUTICAL AND INDUSTRIAL TECHNOLOGY, CONCENTRATION —AVIATION FLIGHT TRAINING**  
**ACADEMIC MAP: DEGREE BS (120 CREDIT HOURS)**

This degree map is a semester-by-semester course schedule for students majoring in [Aeronautical and Industrial Technology \(AIT\) with a concentration in Aviation Flight Training](#). The milestones listed to the right of each semester are designed to keep a student on track to graduate in four years. The schedule serves as a general guideline to help build a full schedule each semester. Milestones are courses and special requirements necessary for timely progress to complete a major. When one or more milestones are missed, students should consult with an academic advisor to determine if another degree path would be more suitable.

The Aviation Science Program with a concentration in flight training is designed to provide a coordinated platform of study combining liberal arts with concentrations in Aviation Flight Training. This plan of study leads to a Bachelor of Science Degree. Flight training is conducted through affiliate flight training schools located within a ten-mile radius of the Main Campus. Fees for training represent an additional cost to the student and are subject to market driven forces. For a list of affiliate flight schools and related costs, please contact the AIT Department Head.

Academic credit for pilot certificates and ratings will be in accordance with FAR Part 141 or 61 and in accordance with pertinent University policies. Incoming freshman and transfer students must make an appointment with the Departmental Chair in order to have their FAA Certificates properly evaluated and documented.

No student will be allowed to take any Departmental courses, major courses, engineering courses, mathematics and/or science courses without having a successfully completed the proper pre-requisite for those courses. Students earning a grade “D” or lower in a mathematics course(s), or a major course (s) the very next time the course(s) is offered. All “D” grades earned in mathematics, science, departmental or major courses must be repeated the very next time the courses are offered until a minimum grade of “C” is earned. However, students may graduate with a maximum of two “D” grades in these courses.

Tennessee State University recognizes that students have diverse learning, life, and professional experiences. The University provides opportunities for students to earn college credit toward the degree through a number of assessment options that evaluate their learning experiences. These paths are grouped under the category “Prior Learning Assessment” (PLA). Various means of earning PLA credit at TSU are the following: Advance Placement Program, American Council of Education (ACE) Military Credit, American Council on Education (ACE) other Assessed Credit, College Level Exam Program (CLEP), DSST Credit by Examination Program (includes DANTES Examination), Institutional Course Challenge Exams (Departmental Exams), International Baccalaureate Credit, Other Military Service, Portfolio Assessment. To learn more about PLA contact your academic advisor or the Office of Student Support Services for Adult and Distance Learners (615) 963-7001.

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Department Web Address: <http://www.tnstate.edu/ait/aviationflight.aspx>

Fall Schedule		Milestones
<b>Semester 1</b>	<b>Hrs.</b>	<b>Semester 1</b>
UNIV 1000*	1	Minimum Grade of “C” Required
AITT 1001	3	Minimum Grade of “C” Required
ENGL 1010	3	Pre-requisite Course: Must be taken before ENGL 1020, HIST 2010, HIST 2020, HIST 2050, HIST 2060 and HIST 2700; Minimum Grade of “C” Required
MATH 1710	3	Pre-requisite Course: Must be taken before MATH 1720; Minimum Grade of “C” Required
Humanities**	3	Minimum Grade of “C” Required
HPER or ROTC or BAND***	1	Minimum Grade of “C” Required
<b>Total Hours</b>	<b>14</b>	<b>Lower level courses (1000-2000) must be passed with grade of “C” or better in order to matriculate</b>

\*An Orientation course taken at another University does **NOT** meet this requirement. Students with less than 60 credit hours must take UNIV 1000 at TSU.

\*\*Students must take a 3 credit hour course from the following list of approved general education Humanities courses:  
 AREN 2310, ART 1010, HIST 1000, THTR 1020, MUSC 1010, PHIL 1030, or RELS 2010.

\*\*\*Students may choose a one hour course in ROTC-AERO 1010 or 2020, Marching Band- MUSC 2010 University Marching Band (1), MUSC 2011 University Marching Band-one credit (1), Admission by audition and permission of the Director of Bands, or any Health, Physical Education, & Recreation –HPER 1010, 1011, 1013 or 1032.

Spring Schedule		Milestones
<b>Semester 2</b>	<b>Hrs.</b>	<b>Semester 2</b>
MATH 1720	3	Minimum Grade of "C" Required
ENGL 1020	3	Pre-requisite Course: Must be taken before HIST 2010, HIST 2020, HIST 2050, HIST 2060 and HIST 2700; Minimum Grade of "C" Required
CHEM 1110	3	Minimum Grade of "C" Required
CHEM 1111	1	Minimum Grade of "C" Required
AITT 2500	3	Minimum Grade of "C" Required
HPER/ROTC/BAND*	1	Minimum Grade of "C" Required
<b>Total Hours</b>	<b>14</b>	<b>Lower level courses (1000-2000) must be passed with grade of "C" or better in order to matriculate</b>

\*Students may choose a one hour course in ROTC-AERO 1010 or 2020, Marching Band- MUSC 2010 University Marching Band (1), MUSC 2011 University Marching Band-one credit (1), Admission by audition and permission of the Director of Bands; or any Health, Physical Education, & Recreation –HPER 1010, 1011, 1013 or 1032. Please remember not to duplicate a course option from a previous semester.

Fall Schedule		Milestones
<b>Semester 3</b>	<b>Hrs.</b>	<b>Semester 3</b>
AITT 2350	3	Minimum Grade of "C" Required
Humanities*	3	Minimum Grade of "C" Required
PHYS 2010	3	Minimum Grade of "C" Required
PHYS 2011	1	Minimum Grade of "C" Required
ENGL 2110**	3	Minimum Grade of "C" Required
HIST 2010***	3	Minimum Grade of "C" Required
AITT 2531	1	Flight Fees Incurred; Minimum Grade of "C" Required ;
<b>Total Hours</b>	<b>17</b>	<b>Lower level courses (1000-2000) must be passed with grade of "C" or better in order to matriculate.</b>

\*Students must take a 3 credit hour course from the following list of approved general education Humanities courses: AREN 2310, ART 1010, THTR 1020, MUSC 1010, PHIL 1030, HIST 1210, HIST 1220 or RELS 2010. Remember not to duplicate a course from a previous semester.

\*\*The department recommends the courses cited above; however, courses within the range of ENGL 2012 through ENGL 2322 will meet this requirement.

\*\*\*The Department recommends HIST 2010; however, HIST 2030, HIST 2050, HIST 2060 or HIST 2700 satisfy this requirement.

Spring Schedule		Milestones
<b>Semester 4</b>	<b>Hrs.</b>	<b>Semester 4</b>
COMM 2200	3	Minimum Grade of "C" Required
AITT 2532	1	Flight fee incurred; Minimum Grade of "C" Required
PHYS 2020/2021	3	Minimum Grade of "C" Required
HIST 2020*	3	Minimum Grade of "C" Required
AITT 3520	3	
SOCIAL BEHAVIORAL SCIENCE	3	Minimum Grade of "C" Required
<b>Total Hours</b>	<b>17</b>	<i>Student will have Private Pilot License upon completion of semester four</i>

\*The Department recommends HIST 2020; however, HIST 2030, HIST 2050, HIST 2060 or HIST 2700 satisfy this requirement.

Fall Schedule		Milestones
<b>Semester 5</b>	<b>Hrs.</b>	<b>Semester 5</b>
AITT 3070	3	
AITT 3120	3	
AITT 3550	3	
AITT 3571	3	Flight Fees Incurred for this Course
AITT 2533	1	Flight fee incurred; Minimum Grade of "C" Required
ECON 2010	3	Pre-requisite Course: Must be taken before MGMT 3010; Minimum Grade of "C" Required
<b>Total Hours</b>	<b>16</b>	

Spring Schedule		Milestones
<b>Semester 6</b>	<b>Hrs.</b>	<b>Semester 6</b>
MGMT 3010	3	
AITT 3581	3	Flight Fees Incurred for this Course.
AITT 3700	3	
AITT 3950	3	
AITT 3480	3	
<b>Total Hours</b>	<b>15</b>	

Fall Schedule		Milestones
<b>Semester 7</b>	<b>Hrs.</b>	<b>Semester 7</b>
AITT 3560*	3	
ENGR 4500	1	
ENGR 4900	1	
AITT 3601*	2	Flight fees Incurred for this Course
AITT 3810	3	
ENGL 3105	3	
<b>Total Hours</b>	<b>13</b>	

\*Student must have Commercial pilot license with instrument rating to enroll in AITT 3570, and 3601

Spring Schedule		Milestones
<b>Semester 8</b>	<b>Hrs.</b>	<b>Semester 8</b>
		Take Senior Exit Exam and Apply For Graduation
ENGR 4510	1	
MGMT 4050	3	
AITT 3900	3	
AITT 4400	3	
3000-4000 TECH/NON-TECH ELEC*	4	
<b>Total Hours</b>	<b>14</b>	

\*The technical or non-technical elective may be satisfied with one of the following courses: AITT 3500, AITT 3840, AITT 3890, and 4020.

**Employment Information:**

The Aviation Science Programs are designated to provide a coordinated program combining liberal arts with concentrations in either Aviation Flight Training or Aviation Management. These concentrations lead to a Bachelor of Science Degree. Students interested in future positions in industry-related aviation, especially as either pilots or as managers, will benefit from these concentrations. Tennessee State University is recognized by the Federal Aviation Administration as an Aviation Education Resource Center. Additionally, the University holds an FAR Part 141 Air Agency Certificate (TUOS674K) from the Federal Aviation Administration to conduct pilot ground school training. Flight training is conducted through affiliate flight training schools located within a ten-mile radius of the main campus. Flight fees represent an additional cost to the student and are subject to market driven forces. For a list of affiliate flight schools and related costs, please contact the AIT Department Head. Academic credit for pilot certificates and ratings will be in accordance with FAR Part 141 or 61 and in accordance with pertinent University policies. Incoming freshman and transfer students must make an appointment with the Departmental Chair in order to have their FAA Certificates properly evaluated and documented.

**Representative Job Titles Related to this Major:**

Flight Instructor – Commercial Pilot, Human Factors Engineer & System Safety Analyst

**Representative Employers:**

Cessna Aircraft Corporation, Piper Aircraft Corporation, United States Air Force, Federal Aviation Administration

Students interested in future positions in industry-related aviation, especially pilots will benefit from this. Tennessee State University is recognized by the Federal Aviation Administration as an Aviation Education Resource Center. Additionally, the University holds an FAR Part 141 Air Agency Certificate (TUOS674K) from the Federal Aviation Administration to conduct pilot ground school training.

**International study is available for all TSU students and may include opportunities for internships or taking course work towards various minors.** International study may have an impact on the MAP; therefore, it is important to consult with the academic advisor for this major before participating in an international Program opportunity. Students interested in study abroad opportunities should contact the [Office of International Programs and consult with their academic advisor.](#)

This map is not intended to be a contract; either expressed or implied, between the University and the students, but represents a flexible program of the current curriculum which may be altered from time to time to carry out the academic objectives of the University. TSU specifically reserves the right to change, delete or add to any MAP at any time within the student's period of study at the University.

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