



# **North Texas Aviation Education Initiative**

NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

## **Library of Aviation Academic Programs**

August 2009



# North Texas Aviation Education Initiative

NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

## LIBRARY OF AVIATION ACADEMIC PROGRAMS

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## Overview of Aviation Academic Programs

Higher education for aviation-specific careers has matured into a broad array of two- and four-year academic programs offered by many universities and colleges throughout the U.S. The University Aviation Association (UAA) lists 54 U.S. member institutions that offer such programs. Of these, 27 institutions have been recognized by the Aviation Accreditation Board International (AABI) as offering programs that meet high standards for delivering a quality aviation education program. Appendix A lists UAA institutional members and those which have AABI accreditation. At the same time, relevant to the State of Texas and North Central Texas, there are several collegiate aviation programs that are neither accredited by AABI nor are UAA members.

A number of national programs were identified to represent four-year aviation education programs that are part of a larger public university system of higher education that might serve as a model for a similar program for serving the region. Exhibit 1 lists those programs selected for closer examination and includes a summary list of the various degree offerings, tuition rates and enrollment information where available. Appendix B provides detailed information on each program that is listed, including the academic courses of study, specific aviation course descriptions, and tuition rates.



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## Exhibit 1: National Baccalaureate Aviation Programs

<p>The following information is listed in this order:</p> <ul style="list-style-type: none"> <li>• University</li> <li>• Division</li> <li>• Department</li> <li>• Degrees</li> <li>• Resident tuition (RT)</li> <li>• Non-Resident tuition (NRT)</li> <li>• University Accreditation (UA)</li> <li>• School Accreditation (SA)</li> <li>• Website</li> </ul>	<p><b>University of North Dakota (UND)</b>  School of Aerospace Sciences  Department of Aviation  BS, Aeronautics  BBA, Aviation Management  BBA, Airport Management  MS, Aviation  RT: 220 / NRT: 660 <i>per credit hour</i>  3,363/7,923 per semester (12+ credit hours)  UA: NCA-HLS / SA: AABI  <a href="http://aero.und.edu/Home/">http://aero.und.edu/Home/</a></p>
<p><b>Florida Institute of Technology</b>  College of Aeronautics  BS, Aeronautical Science  BS, Aviation Management  BS, Aviation Computer Science  BS, Aviation Meteorology  MS, Aviation Airport Management &amp; Planning  MS, Human Factors  RT: 930  14,130 per semester (12 - 19 credit hours)  UA: SACS / SA: AABI  <a href="http://coa.fit.edu/">http://coa.fit.edu/</a></p>	<p><b>St. Cloud (MN) State University</b>  Aviation Department  BS, Aviation (Management)  BS, Aviation (Operations)  BS, Aviation (Professional Flight)  BAS, Aviation Maintenance Management  RT: 180 / NRT: 391 <i>per credit Hour</i>  UA: NCA-HLS / SA: AABI  <a href="http://www.stcloudstate.edu/aviation/">http://www.stcloudstate.edu/aviation/</a></p>
<p><b>Oklahoma State University</b>  School of Educational Studies  Aviation &amp; Space Education  BS, Aerospace Administration &amp; Operations  Options: Aerospace Logistics, Aviation Management, Professional Pilot, Aerospace Security, Technical Services Management  MS, Aerospace Administration &amp; Operations  EdD, Applied Aviation Studies  RT: 151 / NRT: 477 and RT: 155 / NRT: 602 <i>per credit hour</i>  UA : NCA-HLS / SA: AABI  <a href="http://aviation2.okstate.edu/">http://aviation2.okstate.edu/</a></p>	<p><b>Middle Tennessee State University</b>  Department of Aerospace  Concentrations: Administration, Maintenance Management, Professional Pilot, Technology, Flight Dispatch &amp; Scheduling  BS, Aerospace  RT: 250 / NRT: 747 <i>per credit hour</i>  UA: SACS / SA: AABI  <a href="http://aerospace.web.mtsu.edu/home.htm">http://aerospace.web.mtsu.edu/home.htm</a></p>
<p><b>Metropolitan State College of Denver (CO)</b>  Aviation &amp; Aerospace Science Department  School of Professional Studies  BS, Aviation Technology  Concentrations: Professional Flight Officer, Corporate &amp; General Aviation, Aerospace Operations, Air Traffic Collegiate Training Initiative  BS, Aviation Management  Concentrations: Aerospace Management, Aerospace Maintenance Management  RT: 194 / NRT: 590 <i>per credit hour</i>  UA: NCA-HLS  <a href="http://www.mscd.edu/~aviation/">http://www.mscd.edu/~aviation/</a></p>	<p><b>Arizona State University</b>  College of Technology &amp; Innovation  BS, Aeronautical Transportation Technology  Concentrations: Air Transportation Management, Professional Flight  BS, Air Traffic Management  RT: 200 / NRT: 620  <i>based on lump sum semester (15 credit hours)</i>  UA: NCA-HLS / SA: AABI  <a href="http://technology.asu.edu/aviation">http://technology.asu.edu/aviation</a></p>



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## Exhibit 1: National Baccalaureate Aviation Programs (continued)

<p><b>Kent State University</b>          College of Technology          BS, Aeronautics          Concentrations: Aeronautical Studies, Aeronautical Systems Engineering Technology, Air Traffic Control, Aviation Management, Flight Technology          RT: 397 / NRT: 747 <i>per semester hour</i>          (4,363/8,209 - 11+ hours)          UA: NCA-HLS / SA: AABI  <a href="http://www.kent.edu/tech/AcademicDivisions/Aeronautics/index.cfm">www.kent.edu/tech/AcademicDivisions/Aeronautics/index.cfm</a></p>	<p><b>Western Michigan University</b>          College of Aviation          BS, Aviation Science &amp; Administration          BS, Aviation Flight Science          BS, Aviation Maintenance Technology          RT: 293 / NRT: 723 <i>per semester hour</i>          (4,228/10,453 - 12-16 hours)          UA: NCA-HLS / SA: AABI  <a href="http://www.wmich.edu/aviation/">http://www.wmich.edu/aviation/</a></p>
<p><b>University of Louisiana – Monroe</b>          College of Business Administration          BBA, Aviation          RT: 348 / NRT: 472 <i>per semester hour</i>          (2,012/5,387 - 12+ hours)          UA: SACS / SA: AABI  <a href="http://ele.ulm.edu/aviation.html">http://ele.ulm.edu/aviation.html</a></p>	<p><b>Southeastern Oklahoma State University</b>          Aviation Sciences Institute          Department of Flight          BS, Aviation - Professional Pilot          BS, Aviation Management          Options: Business, Maintenance, Safety, Security          RT: 156 / NRT: 368 <i>per semester hour</i>          (1,872/4,420 - 12+ hours)          UA: NCA-HLS / SA: AABI  <a href="http://aviation.se.edu/">http://aviation.se.edu/</a></p>
<p><b>Southern Illinois University</b>          College of Applied Sciences &amp; Arts          Department of Transportation          BS, Aviation Management          BS, Aviation Technologies          Specializations: Aircraft Maintenance, Aviation Electronics, Helicopters          RT: 243 / NRT: 608 <i>per semester hour</i> (3,645 / 9,120 - 15+ hours)          UA: NCA-HLS / SA: AABI (AAS, Flight only)  <a href="http://www.aviation.siu.edu">http://www.aviation.siu.edu</a></p>	<p><b>University of Oklahoma</b>          College of Continuing Education          Department of Aviation          BS, Aviation Management          BS, Professional Pilot          Concentrations: Flying, Non-Flying, Air Traffic Management          RT: 241 / NRT: 574 <i>per credit hour</i>          UA: NCA-HLS / SA: AABI  <a href="http://aviation.ou.edu">http://aviation.ou.edu</a></p>

Source: Av-Ed Team

Baccalaureate aviation programs in the state were also identified and are listed in Exhibit 2. Of those listed, Baylor University and LeTourneau University are both private. Tarleton State University – Central Texas is part of the Texas A&M University system and offers a four-year aviation degree but only provides upper division (junior/senior level) courses. Graduation from an approved two-year program is required.



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## Exhibit 2: State Baccalaureate Aviation Programs

<p>The following information is listed in this order:</p> <ul style="list-style-type: none"> <li>• University</li> <li>• Division</li> <li>• Department</li> <li>• Degrees</li> <li>• Resident tuition (RT)</li> <li>• Non-Resident tuition (NRT)</li> <li>• University accreditation (UA)</li> <li>• School accreditation (SA)</li> <li>• Remarks</li> <li>• Website</li> </ul>	<p><b>Baylor University</b>          Institute for Air Science          BS, Aviation Science          RT: 25,320  <i>per semester (12+ hours)</i>          UA: none          Remarks: Joint degree program with TSTC (Flight)  <a href="http://www.baylor.edu/bias/">http://www.baylor.edu/bias/</a></p>
<p><b>Texas Southern University</b>          College of Science &amp; Technology          Department of Transportation Studies          BS, Aviation Science &amp; Technology          Concentrations: Aviation Science          Management, Aviation Computer          Science          RT: 100 / NRT: 343  <i>per semester hour</i>  <i>(3,200/7,356 - 15 hr semester)</i>          UA: SACS / SA: NAIT  <a href="http://www.tsu.edu/pages/2582.asp">http://www.tsu.edu/pages/2582.asp</a></p>	<p><b>Tarleton State University-Central Texas</b>          College of Science &amp; Technology          BS, Aviation Science          Concentrations: Aviation Management,          Professional Pilot          RT: 145 / NRT: 422  <i>per semester hour</i>          UA: SACS          Remarks: Upper division courses only. Lower division          courses to be taken by approved programs  <a href="http://www.tarleton.edu/centraltexas/departments/aviation/index.htm">www.tarleton.edu/centraltexas/departments/aviation/index.htm</a></p>
<p><b>LeTourneau University</b>          School of Aeronautical Science          Department of Applied Aviation Sciences          BS, Air Traffic Management          Concentration: Professional Flight          BS, Aircraft Systems          Concentrations: Computer Science,          Design Technology, Electrical          Technology, Maintenance          Management, Mechanical Technology          AS, Air Traffic Control          Department of Flight Science          BS, Aeronautical Science          Concentration: Mission Aviation          BS, Professional Flight          Concentrations: Management,          Marketing, Military          RT: 10,500  <i>per semester (12-18 credit hours)</i>          UA: SACS  <a href="http://www.letu.edu/openccms/openccms/Academics/Aero-Science/introduction/index.html">www.letu.edu/openccms/openccms/Academics/Aero-Science/introduction/index.html</a></p>	

Source: Av-Ed Team



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Exhibit 3 presents summary information on statewide two-year programs, with particular emphasis on those programs located in or near North Central Texas. As can be seen, most of these programs are focused on providing professional pilot, flight dispatcher, aircraft maintenance, and aviation electronics (avionics) courses of study. A two-year aviation management degree is offered as an area of concentration at the Dallas County Community College. Many of these colleges also offer a certificate program for the professional pilot, aircraft and avionics line maintenance, and flight dispatcher professions.

## Exhibit 3: Regional Aviation Programs

<p>The following information is listed in this order:</p> <ul style="list-style-type: none"> <li>• College</li> <li>• Division</li> <li>• Department</li> <li>• Degrees</li> <li>• Resident tuition (RT)</li> <li>• Non-Resident tuition (NRT)</li> <li>• University accreditation (UA)</li> <li>• School accreditation (SA)</li> <li>• Remarks</li> <li>• Website</li> </ul>	<p><b>Tarrant County College</b>  Northwest Campus (Fort Worth)  AAS, Aviation Maintenance/Electronics Technology  AAS, Aviation Maintenance Technology Certificate Program  Aircraft Electronics Line Maintenance  Aircraft Maintenance Technology - Airframe  Aircraft Maintenance Technology - Powerplant  RT: 50 (73) / NRT: 165  <i>per semester hour</i>  (In-District vs. other TX Districts)  UA: SACS  <a href="http://www.tccd.edu/Courses_and_Programs/Program_Offerings/Aviation.html">www.tccd.edu/Courses_and_Programs/Program_Offerings/Aviation.html</a></p>
<p><b>Dallas County Community College</b>  Mountain View Campus (SW Dallas)  AAS, Aviation Technology  Options: Aircraft Dispatcher, Professional Pilot, Airport Management  Certificate Program  Aircraft Dispatcher  RT: 41 (76) / NRT: 200  <i>per semester hour (In-District vs. other TX Districts)</i>  UA: SACS  <a href="http://www.dcccd.edu/cgi-bin/MsmGo.exe?grab_id=0&amp;page_id=6645&amp;query=aviation&amp;hiword=AVIATOR%20aviation">http://www.dcccd.edu/cgi-bin/MsmGo.exe?grab_id=0&amp;page_id=6645&amp;query=aviation&amp;hiword=AVIATOR%20aviation</a></p>	<p><b>Central Texas College</b>  Killeen Campus  AAS, Aviation Science  Certificate Program  Aviation Science  RT: 43 (54) / NRT: 200  <i>per semester hour</i>  (In-District vs. other TX Districts)  Remarks: approved for Tarleton  <a href="http://www.ctcd.edu/aviation/">http://www.ctcd.edu/aviation/</a></p>
<p><b>San Jacinto College</b>  Houston &amp; Pasadena Campuses  AAS, Aviation Management  AAS, Pilot Development Program  AAS, Aircraft Maintenance Management  Certificate Program  Aircraft Dispatcher  Pilot Development Program  RT: 33 (58) / NRT: 108  <i>per semester hour (In-District vs. other TX Districts)</i>  UA: SACS  Remarks: approved for Tarleton  <a href="http://www.sanjac.edu/program/aeronautical.html">http://www.sanjac.edu/program/aeronautical.html</a></p>	<p><b>Texas State Technical College</b>  Waco Campus  AAS, Aircraft Pilot Training Technology  AAS, Avionics Technology  AAS, Aviation Maintenance Technology  RT: 101 / NRT: 222  <i>per semester hour</i>  UA: SACS  Remarks: approved for Tarleton  <a href="http://www.waco.tstc.edu/ta/">http://www.waco.tstc.edu/ta/</a></p>



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## Exhibit 3: Regional Aviation Programs (continued)

<p><b>Southwest Texas Junior College</b>          Uvalde Campus          AAS, Career Pilot Technology          RT: 43 (73) / NRT: 90  <i>per semester hour (In-District vs. other TX Districts)</i>          Remarks: approved for Tarleton  <a href="http://tech.swtjc.net/TE/PROGRAMS/SCIENCE/career_pilot.htm">http://tech.swtjc.net/TE/PROGRAMS/SCIENCE/career_pilot.htm</a></p>	<p><b>Paris Junior College</b>          AAS, Aircraft Maintenance Technology          RT: 55 (84) / NRT: 124  <i>per semester hour</i>  <i>(In-District vs. other TX Districts)</i>  <a href="http://www.parisjc.edu/index.php/pjc/content-pjc/aircraft-mechanic">www.parisjc.edu/index.php/pjc/content-pjc/aircraft-mechanic</a></p>
<p><b>University of North Texas</b>          BS, Aviation Logistics (proposed)          RT: 3,500 / NRT: 6,825  <i>per semester (12 credit hours)</i>          Remarks: proposed start Fall 2010</p>	<p><b>Embry-Riddle Aeronautical University</b>          Worldwide - Ft. Worth Campus          AS, Professional Aeronautics          AS, Technical Management          BS, Professional Aeronautics          BS, Technical Management          RT: \$225 - \$310  <i>per credit hour per quarter</i>  <a href="http://worldwide.erau.edu/campuses-online/fort-worth.html">http://worldwide.erau.edu/campuses-online/fort-worth.html</a></p>

Source: Av-Ed Team

Students at most of the schools named in this report are eligible for financial aid through federal and state grants, guaranteed loans, and general scholarships. The exact level of aid is usually dependent upon individual family financial status and contributions toward college financial tuition and other needs. Scholarships specifically for aviation-specific education programs are discussed in another section of the Aviation Education Initiative Study.

Appendix C presents detailed information on several of the grants and loans programs available to students to attend college in Texas.