

JACKSBORO MIDDLE SCHOOL TIGERS' ROAR

8th Career Newsletter

October 2010

COUNSELOR: Mrs. Stretcher



STUDY STRATEGIES: Key To A Successful Education

“Study Strategies” www.highschoolhub.org
(August 2003)

Your high school and college education is a major accomplishment for every teenager and young adult. It is important that you give it your all and don't risk a poor performance on your lack of being prepared. Here are some study tips that will help you make the most of your study time and help prepare you for putting your best foot forward in your classes.

***Take control. Make a list of all the things you need to do. Divide your workload into manageable chunks. Prioritize. Schedule your time realistically. Stick to your deadlines.**

***Get into the habit of actively studying each day.**

***Choose a quiet, nondistracting place to study.**

***Study for short focused blocks of time.**

***Organize new information. Create outlines, charts, flashcards, timelines, and concept maps to help you visualize relationships. Try to integrate what you're studying with what you already know.**

***Occasionally, study with a friend. Quiz each other, compare notes, discuss discrepancies.**

***When you feel yourself losing focus, switch the type of task you are working on, the subject that you are studying, or the environment that you are in. Take a break and walk around a bit. Stop studying when you are no longer being productive.**

***Review your notes just before going to sleep.**

More students will experience difficulty in college because of their lack of study skills. High school was a breeze and students brag that they made the grade without ever “cracking a book”. Yes, not studying

in high school allows you more time to socialize with your friends. But, in college not “cracking a book” will catch up with you. This is the time to prepare yourself for the future and begin developing good habits to carry with you as you work towards your future goals.



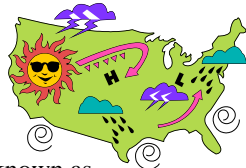
It is never too early to start thinking about the kind of job that you want to prepare to have in the future. Each month, I will highlight two careers and will provide information about the qualifications for that particular career. Information on the careers listed comes from the following websites:

www.careercruising.com,
www.careervoyages.gov,
www.careerlaunch.net, www.myplan.com,
and www.bls.gov/OCO/.

Meteorologist

Job Description

Atmospheric science, also known as meteorology, is the study of the atmosphere---the blanket of air covering the Earth. They study the atmosphere’s physical characteristics, motions, and processes, and the way in which these factors affect the rest of our environment. In addition to predicting the weather, atmospheric scientists attempt to identify and interpret climate trends, understand past weather, and analyze today’s weather. Weather information and meteorological research re also applied in air pollution control, agriculture, forestry, air and sea transportation, defense, and the study of possible trends in the Earth’s climate, such as global warming, droughts, and ozone depletion. These scientists study the Earth’s air pressure, temperature, humidity, and wind velocity, and



they apply physical and mathematical relationships to make short-range and long-range weather forecasts. Their data come from weather satellites, radars, sensors, and stations in many parts of the world. They use sophisticated computer models of the world’s atmosphere to make long-term, short-term, and local-area forecasts.

Work Environment

Weather stations are found everywhere---at airports, in or near cities, and in isolated and remote areas. Some atmospheric scientists also spend time observing weather conditions and collecting data from aircraft. Weather forecasters who work for radio or television stations broadcast their reports from station studios, and may work evenings and weekends. Those who work for private consulting firms or for companies analyzing and monitoring emissions to improve air quality usually work with other scientists or engineers; fieldwork and travel may be common for these workers.

Most weather stations operate around the clock, 7 days a week. Jobs in such facilities usually involve night, weekend, and holiday work, often with rotating shifts. During weather emergencies, such as hurricanes and tornados, meteorologists may work overtime.

Tools and Technology

Radar - a valuable tool for detecting and measuring rain and other precipitation. Radar observations first identified the rainbands that spiral into the eye of a hurricane. A special kind of radar known as Doppler can measure wind speed and direction. Doppler radar has become the best tool available for detecting tornados and other dangerous kinds of severe weather. It also is the key element of the new wind-shear detection and warning system that is being used at major U.S. airports. Acoustic sounders have been developed that use sound waves to measure winds in the same way that radar probes the atmosphere with an electronic beam.

Satellites - The two tools of modern meteorology that truly have revolutionized the field are satellites and computers. Today's satellites use advanced remote-sensing techniques to measure temperature, winds, and other qualities of the atmosphere at many levels.

Satellites are among the most valuable tools of meteorology because they can cover the entire surface of the earth, including vast ocean areas where no weather stations exist, and can monitor changes in global climate.

Computers - Numerical models of the atmosphere are sets of mathematical equations that represent the physical principles that govern atmospheric structure and motions. By using high-speed computers to solve the equations over and over, meteorologists can simulate days, weeks, and years of atmospheric behavior in minutes or hours, depending on the complexity of the model and the speed of the computer. The U.S. National Weather Service and most of the world's other weather services produce large-scale weather forecasts by making the weather "happen" in the computer faster than it happens in the real atmosphere. Because these simulations are so complex and use such vast quantities of data, the world's biggest and fastest supercomputers are used in atmospheric research and large-scale weather forecasting.

Education

A bachelor's degree in meteorology or atmospheric science, or in a closely related field with courses in meteorology, usually is the minimum educational requirement for an entry-level position as an atmospheric scientist. A master's degree is necessary for some positions, and a Ph.D. degree is required for most basic research positions.

The preferred educational requirement for entry-level meteorologists in the Federal Government is a bachelor's degree with at least 24 semester hours of meteorology/atmospheric science courses, including 6 hours in the analysis and prediction or weather systems, 6 hours of atmospheric dynamics and thermodynamics, 3 hours of physical meteorology, and 2 hours of remote sensing of the atmosphere or instrumentation. Other required courses include 3 semester hours of ordinary differential equations, 6 hours of college physics, and at least 9 hours of courses appropriate for a physical science major---such as statistics, chemistry, physical oceanography, physical climatology, physical hydrology, radioactive transfer, aeronomy (the study of the upper atmosphere), advanced thermodynamics, advanced electricity and magnetism, light and optics, and computer

science. A bachelor's degree in mathematics, physics, or engineering provides excellent preparation for graduate study in atmospheric science.

Students should also take courses in subjects that are most relevant to their desired area of specialization. For example, those who wish to become broadcast meteorologists for radio or television stations should develop excellent communication skills through courses in speech, journalism, and related fields.

High School

Highly recommended high school courses should include the following mathematics courses: algebra 1, geometry, algebra 2, and trigonometry. AP Calculus is also very advantageous.

Science courses should include chemistry and physics.

If you want to be a meteorologist, take every math and computer science course that is available.

A good command of written and spoken English is important in communicating scientific knowledge effectively.

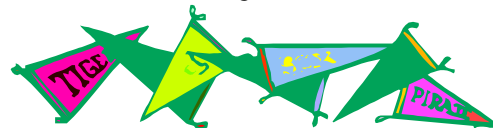
Foreign languages such as Russian, German and French can be useful in keeping up with new international developments in atmospheric science.

Wages

Annual earnings of atmospheric scientists were between \$39,090 and \$119,700. The average annual earning was \$77,150. Meteorologists employed by the Federal Government started at \$35,752 and ranged to \$84,882.

Related Jobs

Environmental scientist, hydrologist, geoscientist, physicist, astronomer, mathematician, and engineer.



Pharmacist

Job Description

Pharmacists distribute prescription drugs to individuals. They also advise their patients, as well as physicians and other health practitioners, on the selection, dosages, interactions, and side effects of medications. Pharmacists monitor the health and progress of patients to ensure the safe and effective use of medication.

Pharmacists in community pharmacies dispense medications, counsel patients on the use of prescription and over-the-counter medications, and advise physicians about patients' medication therapy. They also advise patients about general health topics such as diet, exercise, and stress management, and provide information on products such as durable medical equipment or home health care supplies. They may complete third-party insurance forms and other paperwork.

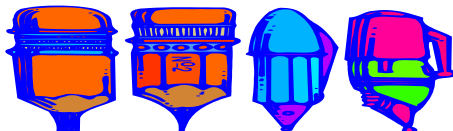
Pharmacists in health care facilities dispense medications and advise the medical staff on the selection and effects of drugs. They may make sterile solutions to be administered intravenously. They also plan, monitor and evaluate drug programs or regimens.

Work Environment

Pharmacists work in clean, well-lighted and well-ventilated areas. Many pharmacists spend most of their workday on their feet. When working with sterile or dangerous pharmaceutical products, pharmacists wear gloves, masks, and other protective equipment.

Most full-time salaried pharmacists work approximately 40 hours a week, and about 10 percent work more than 50 hours. Many community and hospital pharmacies are open for extended hours or around the clock, so pharmacists may be required to work nights, weekends, and holidays.

Consultant pharmacists may travel to nursing homes or other facilities to monitor patients' drug therapy.



Skills

Prospective pharmacist should have scientific aptitude, good interpersonal skills, and a desire to help others. They also must be conscientious and pay close attention to detail, because the decisions they make affect human lives.

They need to be careful and methodical, and be able to work independently. They need good communication skills and be able to deal sensitively with clients' needs.

Active Listening - Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Speaking - Talking to others to convey information effectively.

Reading Comprehension - Understanding written sentences and paragraphs in work related documents.

Mathematics - Using mathematics to solve problems.

Science - Using scientific rules and methods to solve problems.

Work Styles

Attention to Detail - Job requires being careful about detail and thorough in completing work tasks.

Dependability - Job requires being reliable, responsible, and dependable, and fulfilling obligations.

Integrity - Job requires being honest and ethical.

Stress Tolerance - Job requires accepting criticism and dealing calmly and effectively with high stress situations.

Concern for Others - Job requires being sensitive to others' needs and feelings and being understanding and helpful on the job.

Education

Pharmacists must earn a Pharm.D. degree from an accredited college or school of pharmacy. To be admitted to a Pharm.D. program, an applicant must have completed at least 2 years of college study, although most applicants have completed 3 or more years. Other entry requirements usually include courses in mathematics and natural sciences, such as chemistry, biology, and physics, as well as courses in the humanities and social sciences.

Courses offered at colleges of pharmacy are designed to teach students about all aspects of drug therapy. In addition, students learn how to communicate with patients and other health care providers about drug information and patient care. Students also learn professional ethics, concepts of public health, and medication distribution systems management.

A license to practice pharmacy is required in all States. To obtain a license, a prospective pharmacist must graduate from a college of pharmacy that is accredited by the ACPE and pass a series of examinations.

Wages

Pharmacists salaries range from \$67,860 to \$119,480 with the average salary being \$94,520.

Related Jobs

Pharmacy technician, pharmacy aide, biological scientist, medical scientist, chemist, physician, and surgeon.



COLLEGE INFORMATION

Each newsletter highlights and gives details about a college/university and a junior college in Texas that you might want to take a look at more closely and see if this would be an institution that might be of interest to you. A web address for each school is given to help you do some more extensive research if you are interested. College costs are approximate prices for a full-time student (15 – 16 hours), living on campus, for a full year (Fall and Spring semesters) as reported to the College Board *College Handbook 2010*, www.tgslc.com and www.collegefortexans.com.

Texas A&M University
www.tamu.edu

A **public** 4-year university founded in 1876 that awards bachelor's, master's, and doctoral degrees located in College Station (90 miles from Houston, 100 miles from Austin). **Class Size:** 22% of classes have 20 or fewer students, 48% have 20 – 39 students, 8% have 40 – 49 students, 13% have 50 – 99 students, and 10% have 100 or more students. **Special Facilities:** reactor, cyclotron, observatory, agriculture research property, 18-hole golf course, supercomputer center, oceanographic research vessel, Italian study center, George H.W. Bush Presidential Library and Museum. **Basis For Selection:** automatic admission to applicants in top 10% of Texas high school class (with completed application), as specified by state law. Strong senior year course schedule recommended. Test scores required (ACT 23 – 29; SAT critical reading 520 – 630; math 560 – 670; writing 500 – 610) of all applicants but not used for admission of applicants from top 10% of any Texas high school class. **High School Preparation:** College preparatory classes highly

recommended including 4 credits of English, 3 ½ credits of math, 2 credits of social studies, 1 credit of history, 3 credits of science (including 2 laboratory sciences), 1 credit of computer technology, and 2 credits of a foreign language.

Admission Procedures: closing date January 15 (receipt date). Application may be submitted online. Admission notification on a rolling basis beginning on or about April 1. **Need-Based**

Financial Aid: 4,843 full-time freshmen applied for aid; 2,874 were judged to have need; 2,815 of these received aid. Average need met was 89%. Average scholarship/grant was \$9,951. 63% of total undergraduate aid awarded as scholarships/grants. **Non-Need-Based**

Financial Aid: Awarded to 6,311 full-time undergraduates, including 1,503 freshmen. Scholarships awarded for academics, alumni affiliation, art, athletics, job skills, leadership, music/drama, ROTC, state residency.

Academics: Core curriculum requirements in foreign language and computer technology may be satisfied by selected high school courses.

Special Study Options: accelerated study, combined bachelor's/graduate degree, cooperative education, distance learning, double major, dual enrollment of high school students, ESL, honors, independent study, internships, liberal arts/career combination, study abroad, teacher certification program. Exchange programs in architecture with Instituto Tecnológico y de Estudios Superiores de Monterrey, King's College London (England), University of Lancaster (England), Denmark's international study program, Ruhr University Bochum (Germany), University of Lausanne (Switzerland). **Credit/Placement By Exam:** AP, CLEP, institutional tests. **Support**

Services: learning center, pre-admission summer program, remedial instruction, tutoring, writing center. **Most Popular Majors:**

agriculture (13%), biology (9%), business/marketing (16%), engineering/engineering technologies (16%), English (6%), interdisciplinary studies (9%), social sciences (8%). **Additional Majors:** agribusiness operations, agronomy, farm/ranch, horticulture, soil science, turf management, architecture, environmental design, biochemistry, botany, entomology, molecular genetics, zoology, accounting, tourism promotion, digital media, forest management, wildlife, aerospace engineering, civil engineering, English literature, food/nutrition, health/fitness, atmospheric science, geology, physics, forensics, cartography, political science, and others. **Computers:** 1,321

computer workstations are available in the dormitories, library, computer center, and the student center. The dormitories are wired for high-speed internet access and linked to the campus network. Online course registration, online library, helpline, repair service, student web hosting, and wireless network are available.

Housing: coed dorms, single-sex dorms, special housing for disabled, apartments, fraternity/sorority housing, wellness housing available. Campus housing guaranteed to members of the Corps of Cadets and recipients of major 4-year endowed academic scholarships. Freshmen honors dorm available. **Activities:** bands, campus ministries, choral groups, dance, drama, film society, literary magazine, music ensembles, musical theater, radio station, student government, student newspaper, symphony orchestra, TV station, Black awareness committee, committee for the awareness of Mexican American culture, student Y association, student conference on national affairs, social service organizations, College Republicans, Aggie Democrats, political forum, Aggies for Christ, Corps of Cadets. **Athletics:** NCAA. **The school colors are maroon and white, and the team mascot is the Aggies.**

They participate in archery, baseball, basketball, cross-country, diving, equestrian, football, golf, soccer, softball, swimming, tennis, track and field, volleyball. **Intramurals:** archery, badminton, basketball, bowling, diving, golf, lacrosse, racquetball, rodeo, soccer, softball, squash, swimming, table tennis, track and field, volleyball. **Student Services:** alcohol/substance abuse counseling, career counseling, student employment services, financial aid counseling, health services, legal services, minority student services, on-campus daycare, personal counseling, placement for graduates, veterans' counselor, women's services. **Freshmen Class Profile:** 20,887 apply for admission; 14,640 are admitted; 8,093 enroll. **Enrollment: 46,542** (47% Female, 53% Male; 3% Out-of-State; 1% International; 3% African American, 5% Asian American, 14% Hispanic American, 1% Native American).

Tuition and Fees	\$ 8,391
Room and Board	\$ 8,039
Books and Supplies	\$ 1,278
Personal Expenses	\$ 2,223

TOTAL **\$ 19,931**

North Central Texas College
www.nctc.edu

A **public** 2-year community college founded in 1924 located in Gainesville (70 miles from Dallas). **Special Facilities:** planetarium, experimental farm, cattle center, horse arena.

Basis For Selection: Open admission, but selective for some programs. Special requirements for some health profession programs. **High School Preparation:** 4 credits of English, 2 credits of math, 2 credits of social studies, and 2 credits of science. **Financial Aid:** All financial aid based on need. Need-based aid available for part-time students. Work-study available nights and for part-time students.

Admission Procedures: No deadline. Admission notification on a rolling basis. High school transcript, proof of state residency, pre-THEA placement required for certain courses of study. **Special Study Options:** cross-registration, distance learning, dual enrollment of high school students. **Credit/Placement by Exam:** AP, CLEP, institutional tests. 18 credit hours maximum toward associate degree.

Support Services: learning center, remedial instruction, tutoring. **Majors:** equestrian studies, farm/ranch, administrative services, office technology, data processing, drafting, EMT paramedic, nursing, occupational health, legal secretary, paralegal, diesel mechanic, criminal justice, criminology, commercial photography, and others. **Computers On Campus:** There are 60 computer workstations in the dormitories, library, computer center, and the student center. The dormitories are linked to the campus network. Online course registration, online library, and helpline are available.

Housing: coed dorms, special housing for disabled, wellness housing available. **Activities:** choral groups, dance, drama, literary magazine, music ensembles, student government, Baptist student union, Future Farmers of America, honor society, Young Republicans, nursing student association, criminal justice club, Methodist student organization, computer club. **Athletics:** NJCAA. **The school colors are blue and red, and the team mascot is the Lions.** They participate in baseball, rodeo, tennis, volleyball.

Intramurals: badminton, basketball, bowling, equestrian, golf, racquetball, softball, table tennis, tennis, track and field, volleyball.

Student Services: adult student services, career counseling, student employment services, personal counseling, veterans' counselor, women's services. **Enrollment: 7,400** (Female

59%, Male 41%; African American 8%, Hispanic American 11%).

Tuition and Fees	\$ 2,940
Room and Board	\$ 3,528
Books and Supplies	\$ 1,130
Personal Expenses	\$ 2,122
TOTAL	\$ 9,720



Graphics

Art Explosion – 200,000 Images, by Nova Dev. Corp., 1999.

Click Art, by Broderbund, 1998.

The Print Shop Deluxe Version 22, by Broderbund, 2005.

Microsoft Clip Art, Microsoft, 2007.

Jacksboro ISD does not discriminate on the basis of age, race, religion, color, national origin, sex, or disability in providing education services, activities, and programs, including vocational programs, in accordance with Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments of 1972; Section 504 of the Rehabilitation Act of 1973, as amended.



SCHOOL CALENDAR

October 1	End of 1st Six Weeks
October 15	HOMECOMING! Early Release (11:30)
November 5	End of 2nd Six Weeks
Nov. 22 – 26	Thanksgiving Holidays! No School!
December 17	End of 3rd Six Weeks End of 1st Semester
Dec. 20 – Dec. 31	Christmas Holidays! No School!
January 6	Early Dismissal (11:30) Jack Co. Youth Show
January 7	Teacher Workday No School!
February 18	End of 4th Six Weeks
February 25	Early Dismissal (11:30)
Mar. 14 – 18	Spring Break! No School!
April 4	TAKS 8th Math
April 5	TAKS 8th Reading
April 18	End of 5th Six Weeks
April 22	School Holiday! No School!
April 28	TAKS 8th Science
April 29	TAKS 8th Social Studies
May 6	Bad Weather Day!
May 13	Bad Weather Day!
May 17	TAKS 8th Math Retest
May 18	TAKS 8th Reading Retest
May 20	Early Dismissal (12:00)
May 26	Middle School Promotion (9:00)
May 27	Last Day of School!
June 28	TAKS 8th Math Retest
June 29	TAKS 8th Reading Retest



If you have any comments or suggestions about this newsletter please contact Mrs. Stretcher at 567-7273 during school hours or email at stretchertl@jacksboroisd.net.

