A day in the life of a San Jacinto College student
See Page 6

Auto collision students use virtual spray paint technology
See Page 7

Students train in truck driving as highways roll out the jobs
See Page 8
The best medicine?

A career as a pharmacy technician!

Program Entrance Requirements:
1. Must have a high school diploma, GED, or equivalent
2. Meet the College’s general admission criteria
3. Score a 6 or higher on college skill level assessment exam
4. Complete application
5. Complete a criminal background check
6. Complete a drug screen
7. Submit a copy of up to date immunization records
8. Register as a Pharmacy Technician Trainee with the Texas State Board of Pharmacy

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Questions about San Jacinto College programs and services described in this publication should be directed to the Contact Center at 281-998-6150. Comments or questions about the publication can be directed to the San Jacinto College marketing department at 281-998-6152.

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About San Jacinto College
Surrounded by monuments of history, industries and maritime enterprises of today, and the space age of tomorrow, San Jacinto College has been serving the citizens of East Harris County, Texas, for more than 50 years. The Achieving the Dream Leader College is committed to the goals and aspirations of a diverse population of 30,000 students in more than 200 degree and certificate options, including university transfer and career preparation. Students also benefit from the College’s job training programs, renowned for meeting the needs of growing industries in the region. San Jacinto College graduates contribute nearly $630 million each year to the Texas workforce. San Jacinto College. Your Goals. Your College.

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San Jacinto College recently earned the Greens Bayou Corridor Coalition’s (GBCC) Bayou Buddy award, based on the College’s “real dedication to the care and restoration of the watershed.” Faculty, staff, and students from the College participated in volunteer efforts to clean up trash, and remove tires and invasive plants, replacing them with native plants such as canna, lizard plants, and irises. The College also helped in initial cleanup efforts at Thomas Bell Foster Park, a canoe launch project that is in the works. The canoe launch park, located near the Interstate 10 East Freeway bridge over Greens Bayou, is scheduled to open to the public in late 2013.

Chancellor named one of Houston’s ‘Most Influential Women’

San Jacinto College Chancellor, Dr. Brenda Hellyer, has been named one of “Houston’s 50 Most Influential Women of 2012” by Houston Woman Magazine. A subscriber of Houston Woman Magazine first nominated each honoree for inclusion on the “50 Women” list. The staff of the publication then selected the final 50 women. “As chancellor of San Jacinto College, I have the incredible opportunity to work with faculty, staff, and Board members who are committed to empowering students to achieve their educational dreams,” said Dr. Hellyer. “What a wonderful place to be!” Since being named chancellor of San Jacinto College in 2009, Dr. Hellyer has seen the College grow to serve 30,000 credit students and more than 5,000 continuing education and workforce training students. Under her leadership, San Jacinto College has also received national recognitions which include being named an Achieving the Dream leader college, one of the top community colleges in the U.S. by the Aspen Institute, ranked eighth in the nation for Hispanics earning associate degrees by the Hispanic Outlook in Higher Education Magazine, and a Military Friendly School by G.I. Jobs Magazine. The Pasadena Chamber of Commerce also recently named Dr. Hellyer “Citizen of the Year.”

College names Excellence Award recipients

Eight faculty, administrators, and staff members have been selected as recipients of the 2012-2013 San Jacinto College Excellence Awards. Recognition is given each year to those who demonstrate dedication in service and involvement with the College community, serve as role models and work collaboratively with others, address or meet the needs of the students and employees, and other exemplary qualities and attributes. San Jacinto College employees who earned 2012-2013 Excellence Awards are: Debra Acuff-Whitaker, professor of engineering design graphics, North Campus; Amanda L. Booren, director of communications and publications, District; Woody Dunseith, department chair of public safety and security, Central Campus; Nate Wiggins, professor of mathematics, North Campus; Dr. Brenda Jones, interim provost, South Campus; Celeste Jones, senior administrative assistant, Central Campus; Dr. Kerry Mix, dean of enrollment services, South Campus; Niki Whiteside, vice president of educational technology services, District. Congratulations to the excellence award recipients!

Pasadena children learn of chemical reactions and polymers during San Jacinto College visit

Twenty-five San Jacinto College students and faculty members recently visited San Jacinto Intermediate School to present an evening of science education. Children participated in activities relating to the study of pressure differences, density and Boyle’s Law, chemical reactions, and polymers. The San Jacinto College volunteers also assisted with judging the school’s science fair projects. The College has coordinated science service learning events throughout the Pasadena area since the 1990s. Service learning is found to improve a college student’s cognitive skills; course-related skills and self-reported learning outcomes; increase academic, interpersonal and leadership skills; increase community engagement; increase exposure to career development opportunities; improve self-esteem; and increase ability to apply course concepts to new real-world situations. Pictured is 7-year-old Daniel Eli Andrade as he makes a Cartesian diver, a physics experiment that demonstrates density, pressure, and Boyle’s Law.

Students meet with Texas legislators at Capitol

In early February in Austin, Texas legislators welcomed students from San Jacinto College to discuss their concerns during the fifth annual Texas Community College Student Day. Texas Community College Student Day is held every two years when the Texas legislature is in session. Students from all 50 Texas community colleges are invited to visit with their representatives, get a hands-on approach to the legislative process, and tour the capitol complex. San Jacinto College students brought forth a variety of topics with Sen. Larry Taylor (TX-District 11), and Representatives Wayne Smith (TX-District 128), John Davis (TX-District 129), Ana Hernandez-Luna (TX-District 143), and Mary Ann Perez (TX-District 144), including educational opportunities for international students, alleviating the high school dropout rate, and continued funding for Texas community colleges.

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van Richardson is well on his way to launching a successful heavy machinery transport business, thanks to practical training he is receiving as a student in San Jacinto College’s International Business and Logistics (IBUS) program.

Richardson grew up in the Galena Park area, and graduated from Furr High School. Living near the Port of Houston, he watched the Ship Channel grow and develop, and because of that he acquired a keen interest in the shipping and international trade industry. He will soon earn an IBUS associate degree at San Jacinto College, and then transfer to the University of Houston to earn a bachelor’s degree in international logistics. “Fortunately, San Jacinto College maintains an IBUS articulation agreement with UH, which means my transfer to the university will be seamless,” Richardson commented.

Through an extracurricular class activity at San Jacinto College, Richardson solidified his plans for a career goal.

“I recently attended the Breakbulk Americas conference in downtown Houston as part of the IBUS program at San Jac, and that experience became sort of a defining moment for me in regards to a career choice,” he remarked. “At the conference, I learned about the tremendous potential there is in the breakbulk area of international logistics, and connected with industry representatives. Because of that, I plan to start my own heavy machinery transport business. The business will handle domestic and international transportation of the really large loads, the kind that require police escorts, traffic diversions, etc.”

Richardson currently works for YRC Freight and is familiar with some aspects of the trucking industry. His job led him to be interested in the detailed logistics involved in transporting large loads. At the Breakbulk Americas conference, he gleaned helpful information that could prove useful as he starts a transportation business.

“I learned that Houston is such an important and critical region for domestic and international trade,” he said. “I also learned that the breakbulk area of international trade is in good shape and the Port of Houston is the number one breakbulk port in the nation.”

Breakbulk deals with heavy-lift and vehicle cargo, as opposed to containerized cargo. Because of the expected increased activity around the Port of Houston due to the local petrochemical plants, this could mean good things for Richardson’s future business. Many of these plants are aging and are due to be retrofitted or expanded, and a breakbulk transportation business will be necessary.

Richardson said his experiences at the trade conference, regarded as the premiere breakbulk conference in the nation, supplemented what he has been learning in class at San Jacinto College.

“In class we learn about how the international trade industry operates in theory – things like handling different monetary systems, customs regulations, insurance requirements, and ensuring materials are secured safely for shipping,” he commented. “At the conference I had the opportunity to see how those processes are carried out in the real world. I was also able to network with ship owners and owners of crane companies, connections that are important for someone like me who wants to start my own business.”

San Jacinto College offers IBUS classes and degree plans at the North Campus. The program also features maritime and logistics specialty courses. The IBUS program trains students for careers in the international trade community. For more information, visit www.sanjac.edu or call 281-998-6150.

Rob Vanya

IBUS student on the road to launching transport business

Approximate annual wages for Transportation, Storage, and Distribution Managers in Texas

<table>
<thead>
<tr>
<th>Category</th>
<th>Entry-level workers</th>
<th>Experienced worker</th>
<th>Median wage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary</td>
<td>$54,540</td>
<td>$111,554</td>
<td>$82,867</td>
</tr>
<tr>
<td>Hourly wage</td>
<td>$26.22 per hour</td>
<td>$53.63 per hour</td>
<td>$39.81 per hour</td>
</tr>
</tbody>
</table>

Source: Texas Industry Profiles website
Just about everyone needs a vehicle, which means those vehicles need repair at times. One could say the automotive industry is much like any service-based industry - where there are needs, there are careers. That’s why students like Theodore Reardon of Spring already have a job, and yet, are going back to college to obtain the certifications needed to move up in the workplace.

“I got my job because I decided to study for my associate degree in automotive technology,” said Reardon, a 2012 San Jacinto College graduate. “My dealership told me that they wanted someone with training from an accredited program.”

Reardon is working as a technician specializing in electrical, trim, and air conditioning at Wiesner GMC. The skillset he received through the College’s automotive technology department has prepared him with hands-on training on modern technology that he says was comparable and, at times, more up-to-date than equipment found at many dealerships.

“I feel like I have more job security now that I have my General Motors certifications,” said Reardon. “If you ever want to move up into management the dealerships are requiring degrees now, and that means more money.”

San Jacinto College offers an associate degree in automotive technology with training for five manufacturers that include Ford, General Motors (GM), Chrysler, Honda/Acura, Toyota/Lexus; and certificates for training in Honda, Chrysler, and Toyota automotive repair. There are also two certificates and an associate degree for the automotive technology Future Automotive Technology program.
Service Technicians (FAST) program, an all-encompassing training program.

Students in the FAST program learn to diagnose and repair vehicles from different manufacturers instead of concentrating on only one brand of vehicles. The program trains the most diverse technicians who work in the independent shops, where they will see many different brands of vehicles on a daily basis.

“We’ve streamlined our offerings to make it easier for students to start at one point and complete in a quicker timeframe,” said Mark Deschner, chair of the San Jacinto College transportation department. “We’re going to be able to place students in a job position where they’ll be able to make money basically after the first semester.”

Job placement rate for manufacturing programs near 100 percent. San Jacinto College students go to work for such dealerships as Westside Lexus, Monument Chevrolet, McDavid Honda, Bayway Lincoln, Ron Carter Auto Group, and Allen Samuel Auto Group.

Adelila Ibanze of Pasadena decided to study for a new career while also learning how to repair her own vehicles to save parts and labor costs.

“I was really tired of having my Jeep break down and paying way too much to have it repaired,” said Ibanze. “For the $500 I paid to get the fuel pump fixed, I could have spent that amount to learn how to fix it myself. Plus, I heard San Jac has all of this new equipment and the location is right.”

Most recently, the department introduced a new 92,000 square-foot transportation center, with 25 adjoining class and lab rooms, 24 offices, fully-computerized multipurpose room, and manufacturers and vendors areas. It is registered with the U.S. Green Building Council as Leadership in Energy and Environmental Design (LEED) NC-Silver.

“The curriculum here at San Jacinto College is very thorough,” said Ibanze. “You definitely have to study to excel and to become a successful technician.”

The San Jacinto College automotive department is fully accredited by the National Automotive Technicians Education Foundation (NATEF). Each full-time automotive instructor is also an ASE Master-Certified Technician and certified as an L1 Advanced Engine Performance technician. Industry partners include Snap-on tools, Mac Tools, Matco Tools, and Hunter Engineering Company. Morris & Associates served as the architects, and Durotech General Contractors, Inc. was the center’s contractors.

For more information, visit www.sanjac.edu/automotive-technology, or call 281-998-6150. 

— Jeannie Peng-Armao

A new state-of-the-art transportation center at the San Jacinto College Central Campus houses the College’s automotive technology program. Photo credit: Jeannie Peng-Armao, San Jacinto College marketing department.
A typical day for 30-year-old Julio Lopez revolves around college, work, and family. Upon graduation from Pasadena High School, he went into the Marine Corps and served as an avionics technician. Lopez returned home and attended San Jacinto College as an automotive technology student. "I was very impressed with the automotive program and that is what persuaded me to later on enroll in the College's diesel technology program at the North Campus," he commented. Lopez switched from automotive technology, which deals with gasoline-powered vehicles, to diesel technology because he went to work as a fleet diesel technician for Silver Eagle Distributors, a company that uses mostly diesel-powered vehicles.

Lopez plans to earn a diesel technology associate degree from San Jacinto College, and then transfer to a local university. His ultimate career goal is to become a fleet mechanic supervisor for Silver Eagle Distributors, and operate his own repair shop.

When he is not at school or at work, Lopez enjoys family time with his wife Claudia, a nursing student at San Jacinto College; his son Giovanni (5); and his daughters Mikaela (3) and Naomi (10 months).

A typical weekday for Lopez starts early and ends late. He gets up at 5:30 a.m. and has a quick breakfast, and then helps to get the kids off to school along with his wife. Then, it's off to San Jacinto College North to get classroom and hands-on training in the College's diesel technology program. He is currently taking diesel technology courses Monday through Friday from 7:30 a.m. to 12 p.m. each day. Then he grabs a quick lunch before heading over to his job at Silver Eagle, where he works full-time, Monday through Friday. He generally does not get home from work until 10 p.m., and sometimes even later. "When I get home, about all I have time for is a quick shower and then it's time for bed," he said. "And goodnight hugs and kisses if my children are still awake."

According to the Texas Workforce Commission, diesel technicians can expect to earn an average annual salary of $38,586. San Jacinto College offers an associate degree and certificate of technology in diesel technology.
Technology is integrated in almost every career field, and now even more in education. With an entire generation of technical professionals beginning to retire, many company recruiters and workforce education programs have to find new, creative ways to attract potential employees. In order to appeal to a younger workforce, programs like San Jacinto College’s automotive collision repair have added virtual training simulators that quickly draw interest to the skills and techniques being taught because of its video game-like format.

Recently, the San Jacinto College auto collision program introduced the VRSim, Inc. SimSpray training system. SimSpray provides a virtual paint booth environment where students learn spray-painting techniques with 3-D model automotive, industrial, and structural practice parts. Students put on a 3-D visor to view the object and are given a simulation spray paint gun, creating a realistic experience learning body positioning and how to maneuver with proper angles, coverage, and timing to create the ideal mil thickness on a finished piece. Using a digital touch screen, the instructor selects the part, equipment settings, paint color, and more. They can also view the student’s paint job with various real-time critiquing tools like graphs and image maps showing the travel angle, speed, standoff distance, and mil build.

“This is a great way to build your confidence doing auto body work,” said 39-year-old auto collision student, Jeff Collins. “It’s intimidating when you know someone is bringing his or her vehicle to you to work on, so this is a good way to get a lot of practice. Plus it’s fun, especially for the younger students, since it looks and feels like a video game.”

The SimSpray system is also an eco-friendly, money-saving teaching tool. A virtual paint booth eliminates volatile organic compound (VOC) emissions. It eliminates the expenses of having to buy paint, paint thinner, practice parts, air filters, cleaning fluids, and other equipment. For San Jacinto College auto collision instructor, David Baisden, SimSpray has also provided more collective training time. “In our regular paint booth, you really only have room for the instructor and one student,” he said. “The student needs his or her suit on with a mask, so there’s not enough equipment for several other students to observe inside the booth. With this new virtual system, we can show the whole classroom the proper techniques, and answer any questions they have as we go along,” said Baisden.

“This machine will pay for itself within a year,” said auto collision instructor Jake Stahl. “We spend about $100 a quart for paint, which turns into $400 per training demonstration. This system eliminates that cost, and with a touch of a button, we have a new part and new paint ready to go for the next student. The portability aspect also makes it possible for us to take it to recruiting events to give prospective students a fun, hands-on look at what they’ll learn in our program” said Stahl.

Virtual training systems have been used in military training for years. Within the last decade, the oil and gas, manufacturing, and medical industries have developed sophisticated virtual reality training modules to train a younger, tech-savvy workforce that allows them to safely practice skills without placing themselves or the environment at risk.

“We’re able to learn a lot faster no matter what the outside conditions are,” added Collins, who hopes to one day own his own body shop. “The environment affects what we’re able to work on sometimes. For instance, the regular paint booth needs to be at a certain constant temperature, and we have to wear our paint gear, which gets pretty hot when you’re moving around. Now we can practice despite the weather and without having to wear all that gear.”

The San Jacinto College automotive collision repair program offers two associate of applied science degrees in auto collision repair management and auto collision repair technician, in addition to five occupational certificate options. Career options include body or frame technician, insurance and estimation, paint retail, new and used parts, and custom bodywork. Within the Gulf Coast region an average annual entry-level salary starts at $22,000 with experienced professionals earning upwards to $51,000 annually.

For more information, visit www.sanjac.edu or call 281-998-6150.

Andrea Vasquez
Unlike some industries that struggle with job growth, others, like truck driving, are enjoying a wealth of employment opportunities.

Transportation and material moving occupations are projected to add 1.3 million new jobs by 2020, according to the U.S. Bureau of Labor Statistics. Perhaps this is why students like Kurt Wankowski of Friendswood, are going back to school to train as truck drivers.

“I did my research and knew of the employment opportunities in truck driving,” said Wankowski. “I checked out various schools offering courses, one even closer to my home, but I liked the fact that the San Jacinto College program is condensed and has a reputation for quality training.”

The retired Air Force veteran is hoping to interview for a job immediately after he completes the six-week truck driving program, something that proves very possible, according to John Stephens, commercial truck driving instructor at San Jacinto College.

“We have companies calling us all the time wanting to recruit,” said Stephens. “I also have company representatives visit our campus to talk to the students about the various employment opportunities.”

The San Jacinto College commercial truck driving program enjoys a near 100 percent job placement rate. The majority of the program’s graduates have opportunities available to them upon successful background checks.

Program curriculum covers general knowledge of truck driving, air brakes, doubles and triples, tank vehicles, hazardous materials, and pre-trip knowledge. Many students are eligible to apply for grants to cover the cost of the course through the Continuing and Professional Development division, which offers noncredit program options for work force training.

“Governmental agencies recognize the growing need for truck drivers as projects such as the Panama Canal expansion are completed and traffic increases,” said Dr. J.D. Taliaferro, director of Applied Technologies and Trades with the Continuing and Professional Development division at San Jacinto College. “Grant funding continues to be available, and we expect another round of funding very soon.”

To find out more about the San Jacinto College truck driving program, visit cpd.sanjac.edu/truck-driving or call 281-998-6150.

About the Continuing and Professional Development division

This noncredit division of the College provides training for both current and future employees in the professional and technical job sectors, as well as provides participants with open enrollment course options to enhance their lives. Professional and technical training is available through contract training, open enrollment, and grant funding. For more information, call 281-476-1838.

Jeannie Peng-Armao
Let's face it. Figuring out how to pay for college can be intimidating. With the rising cost of tuition and fees across the country, you may think that the only way you can attend college is to improve your jump shot or win the lottery. Not true! The good news is that there is help out there for students just like you.

Don't assume that you won't qualify for financial aid because you or your parents may make too much money, or don't have high enough grades. Everyone should fill out a FAFSA (Free Application for Federal Student Aid) to determine his or her eligibility.

The FAFSA will help schools decide what financial aid you may qualify for. According to the U.S. Department of Education, every year more than 10 million students are helped through grants, low-interest loans, and work-study programs.

The first step in understanding the student financial aid and FAFSA process is to understand the different types of aid:

- **Grants.** This type of financial aid awards money to students and does not have to be repaid.
- **Federal work-study programs.** Money is earned while attending school, and does not have to be repaid. Jobs can be on-campus or off-campus, and pay can vary, but there are no minimum or maximum amounts that can be earned.
- **Low-interest student loans.** While this form of financial aid must be repaid, some loans are subsidized by the U.S. Department of Education. That means that the interest will be paid while the borrower is in school and during grace periods. Students must attend school at least half-time to qualify.
- **Alternative loans.** These are available through outside financial institutions, which are not in conjunction with federal programs. Interest rates are variable and borrowers must qualify for the loan based on their credit scores.

There are several different grants available to students and the award amounts differ depending on the grant.

Tackling the FAFSA

1. Collect documents needed, including income tax returns and W-2.
2. Get a pin number from www.pin.ed.gov if you plan to file electronically.
3. Complete the FAFSA as soon as possible. Apply online by going to www.fafsa.ed.gov, or visit www.sanjac.edu for financial aid information.
4. Review the Student Aid Report (SAR) sent to you and make changes or corrections as needed.
5. The San Jacinto College financial aid office may contact you if you have been selected for verification. If so, submit the appropriate information.
6. Make sure the financial aid office at San Jacinto College has all the information they need to determine your eligibility.
7. Review award letters from schools to compare aid. Decide which schools to attend based on how well the school suits your needs and its affordability.

**FAFSA Checklist**

Make sure you have the following documents before you begin the FAFSA:

- Your Social Security Number. If you do not have a social security number, please call San Jacinto College at 281-998-6150 and ask to speak with a financial aid representative on the campus of your choice.
- Your driver's license (if any).
- Most recent W-2 forms and other records of money earned.
- Your (and your spouse’s, if you are married) most recent Federal Income Tax Return – IRS Form 1040, 1040A, 1040EZ, foreign tax return, or tax return for Puerto Rico, Guam, American Samoa, the U.S. Virgin Islands, the Marshall Islands, the Federated States of Micronesia or Palau.
- Your parents’ most recent Federal Income Tax Return (if you are a dependent student).
- Your most recent untaxed income records – Social Security, Temporary Assistance to Needy Families, welfare, or Veterans benefits records.
- Your most recent bank statements.
- Your most recent business and investment mortgage information, business and farm records, stocks, bonds, and other investment records.
- If you are not a United States citizen, you will need your alien registration number or permanent residence card.

The second step is to APPLY! With all of the options out there, applying is a no-brainer, especially because it’s easy and free! All you have to do is fill out the FAFSA form, which is available online at www.fafsa.ed.gov, and be sure to enter the San Jacinto College school code 003609. Financial aid specialists at the College are also available to assist you with completing the form.

Don't let money affect your decision to attend college. San Jacinto College can help you realize your goals. We are committed to helping you succeed!
Houston is home to one of the world's busiest ports, and with upcoming global events, traffic is expected to increase. The need for skilled maritime employees is becoming ever more apparent.

The Panama Canal expansion in 2014, coupled with an aging maritime workforce, unveils an anticipation of increased port traffic and an employee shortage across all skill levels.

“The Department of Labor estimates as much as a 20 percent increase in employment opportunities in maritime over the next few years, but we’re expecting a lot more than that here regionally,” said Capt. Mitch Schacter, director of the San Jacinto College maritime program. “Local companies are already experiencing a need to fill their workforce.”

Training the working mariner
Companies are sending their maritime crews to the College’s maritime training center in Pasadena for U.S. Coast Guard licensing and certification. The Center is guided and supported by an advisory committee of industry leaders with classroom and simulator instruction by some of the nation’s most experienced professional mariners.

The Center offers U.S. Coast Guard-approved courses in deck and engineering operations for original or upgraded certificates and licenses for new entry-level mariners, as well as operational and management-level professionals; in result, strengthening maritime companies and crew to become more competitive.

Steve Koska has already completed 19 maritime courses at San Jacinto College, including tankerman, basic safety training, 100 ton Master, and apprentice mate. The U.S. Coast Guard veteran is pursuing a career in one of three industries that include inland barge, deep water, and near coastal fleet.

“I’m one of those guys you would call a frequent flyer because I believe more training helps you move up in your career,” said Koska. “The Coast Guard gave me an impressive resume but did not provide me with the certification needed for the jobs.”

Besides San Jacinto College, which was close to home, Koska considered maritime schools in Florida and Virginia. After learning about the College’s partnerships and the experienced instructors, his decision was made.

“I’m really enjoying the San Jacinto College maritime courses, and the instructors are always willing to take the extra step in helping to explain the curriculum, which is often very technical and precise,” said Koska. “I’m excited about the future of this program.”

In the coming years, a San Jacinto College maritime facility will be built on 13 waterfront acres along the Port of Houston to house multiple classrooms, engineering labs, RADAR, ARPA (Automatic Radar Positioning Aid), ECDIS (Electronic Chart Display and Information System), GMDSS (Global Maritime Distress and Safety System), and advanced navigation labs together with the industry's newest interactive, full mission ship, towboat, and tugboat simulators.

Rear Admiral William W. Pickavance, Jr., has joined San Jacinto College as a consultant to assist with the development of the facility. Pickavance, who served 32 years as a commissioned officer with the U.S. Navy, served as superintendent of the Texas Maritime Academy at Texas A&M University at Galveston (TAMUG) prior to joining the College.

Preparing the next workforce generation
The College also offers the state’s first Associate of Applied Science in Maritime Technology, with courses customized specifically for the needs of surrounding maritime companies. This program is for those interested in working on a vessel in an operations capacity.

“The Associate of Applied Science in Maritime Technology is geared toward those who want to combine a maritime career with a college degree,” said Michael Kane, dean of business and technology at the San Jacinto College Central Campus. “It’s a great opportunity for those who have no prior experience and who want a degree for future promotional opportunities.”

Curriculum includes courses such as basic safety training, deck familiarization, crowd and crisis management, tank familiarization, engineering familiarization, able-bodied seaman, vessel security officer, 100 ton Master, 200 ton Master and Apprentice Mate, radar observer unlimited, and emergency procedures. Students may finish the certificate program within a year and either work or continue on for their degree and the option to transfer to a four-year university.

“Because so many in our workforce are aging, we’re expecting an increase in retirements, especially from the senior-level personnel,” said Capt. Mitch Schacter. “Those in entry-level and mid-level positions will need the training to move up, opening up more positions for new personnel.”
Training professionals for the world of increasing international trade

As maritime shipping continues to be a vital element in the international business arena of logistics and supply chain management, the College’s North Campus offers the Associate of Applied Science in International Business, Logistics and Maritime. Many students, who already have established careers in other industries, are interested in pursuing careers in logistics due to high demand.

“People are approaching me looking to make a career change,” said MaryKate Flanagan, director of the international business, logistics and maritime program.

“I have students from all over the world who want to know how to start their own business. They’re interested in learning about global commerce, which involves international trade such as import/export management.”

Flanagan explained how logistics starts with a contract between importer and exporter, and as they come to an agreement, a legal contract is formed. “Logistics is about what all is involved in the import and export process of the maritime industry,” Flanagan added.

Shoroq Alvarez, a student working toward a degree in international business, logistics, and maritime, already has experience working as a logistics coordinator in Iraq, and now as a shipping and receiving clerk for Kroger. However, she knew she needed more education in the field to land a job in the petrochemical industry.

“I am learning so much on subjects like inbound and outbound logistics, transportation, and agents and distributors,” said Alvarez. “I know this program can help me find a better job with an oil company.

Courses in the international business, logistics, and maritime program prepare students for careers in import-export management; international marketing and sales; marine insurance; freight forwarding and customs bond warehousing; tanker vessel management; cargo routing and distribution; port and facilities operations; air, truck, rail and ocean (multimodal) transportation; international banking and exchange currency transactions; and oil and gas/offshore logistics operations.

Flanagan said government agencies consider the College’s training program some of the best and often have opportunities with U.S. Customs and Border Protection (CBP) and other federal and state departments. Students gain internships and hands-on experience with companies in the Greater Houston Area and network with industry executives at monthly luncheons and special events throughout the year.

Graduates also have the option of transferring to the Maritime Transportation Management and Security program at Texas Southern University, or to the University of Houston – College of Technology to pursue a Bachelor of Science degree in Logistics and Supply Chain Management.

Another partnership the College holds is an articulation agreement with Texas A&M University at Galveston for students who want to earn a Bachelor of Science in Maritime Administration. The ships and shipping course at the College’s South Campus allows students to take advantage of the agreement after earning an associate degree in business administration. The course introduces students to shipboard nomenclature, types of vessels, shipbuilding, navigation, methods of cargo handling, rules of the road, maritime trade and regulation, as well as weather patterns and the impact on vessel operations.

For more information about the maritime program, visit www.sanjac.edu or call 281-998-6150.

Jeannie Peng-Armoo
Local aviation program appeals to aspiring pilots

One of the lesser-known programs San Jacinto College offers is the aeronautical technology (aviation) program. Often overlooked by many students wishing to obtain a private or commercial pilot license, or aviation management degree, many students are surprised to learn about these career training opportunities right in their own backyard.

“I was searching online for flight schools and found San Jacinto College,” said 30-year-old former Army flight operations specialist and aviation student, Jessica Veasey. “I grew up in Dickinson, so I’ve always been familiar with San Jac, but I never knew they had a flight program.” When Veasey was stationed at Fort Bragg researching training options to get her pilot license, San Jacinto College was a surprising option. “It was great because I knew I would be able to go back home and be close to my family.”

Currently on active duty in the Coast Guard, aviation student Eric Mobiglia was also glad to hear about flight training opportunities right at his duty station at Ellington Field. “I’ve always wanted to fly,” said the 27-year old. “I first got stationed in Houston in 2011, and knowing that I’d be assigned to a land unit, I wanted to start going to school using my VA benefits, so I started asking around about flight programs. My supervisor told me about San Jacinto College’s aviation program, and I looked it up online, went to the Central Campus to meet with the instructors and registered for the following semester. The fact that it’s so close is a great benefit.”

The San Jacinto College aviation program offers an Associate of Applied Science in Aeronautical Technology pilot development and aviation management, along with a certificate of technology in pilot development. The pilot development program entails classroom lecture with flight time at Ellington Field with the Flying Tigers Flight School. The Federal Aviation Administration (FAA) requires a minimum of 40 flight hours for certification, with student solo flights being approved after 20 flight hours. The program’s advisory board includes professional and commercial pilots, airport management, and flight school instructors. The newest additions to the aviation program, beginning this Fall, are a certificate of technology in commercial pilot and airport management. Within the Gulf Coast region, aircraft dispatchers with a technical certification can expect to earn an average of $16 an hour ($32,000 annually) and $25 an hour ($50,000 annually) as an experienced professional. Private and commercial pilots with an associate degree can earn an average of $30 an hour ($60,000 annually) and $50 an hour ($100,000 annually) with professional flight experience.

“Everyone is nervous for that first flight you operate by yourself, but it’s still an amazing feeling,” said Veasey, who will begin studying for a master’s degree next Fall. “I have so much more confidence now. San Jacinto College is everything when it comes to accomplishing my career goals. I want to become a commercial pilot flying regionals, so this is definitely setting things in motion.”

Like Veasey, Mobiglia also has plans to become a commercial pilot. “Being active duty in the Coast Guard, more than likely I’ll get transferred somewhere before I complete the program, but San Jacinto College has definitely opened this door for me to continue training for my pilot license,” he said. “Once I retire from the Coast Guard, I want to immediately be able to start working as a commercial pilot.”

For students looking into the program, both agreed that commitment and safety are two big factors to have going in. “Flying is a three-dimensional world,” said Veasey. “You have to be comfortable with what you’re doing. If you’re ever in a situation that doesn’t feel right, don’t push yourself-you’ll live another day,” she noted.

“Stick with it, even the techniques you find difficult,” said Mobiglia. “If there’s something you’re not good at, you can’t get away from it. You have to commit to it and master it.”

For more information about the San Jacinto College aviation program, visit www.sanjac.edu or call 281-998-6150.

Andrea Vasquez
Your Community’s College

Urrounded by monuments of history, industries and maritime enterprises of today, and the space age of tomorrow, San Jacinto College has been serving the citizens of East Harris County, Texas, for more than 50 years. The Achieving the Dream Leader College is committed to the goals and aspirations of a diverse population of 30,000 students in more than 200 degree and certificate options, including university transfer and career preparation. Students also benefit from the College’s job training programs, renowned for meeting the needs of growing industries in the region. San Jacinto College graduates contribute nearly $630 million each year to the Texas workforce. San Jacinto College. Your Goals. Your College.

For more information about San Jacinto College, please call 281-998-6150, visit us at www.sanjac.edu, or find us on Facebook at www.facebook.com/SanJacintoCollege.
COMMUNICATIONS

Our communications programs are flexible and adaptable due to rapidly changing and emerging technologies. Our programs are appropriate for students interested in advertising or public relations, journalism or mass communications, radio and television broadcasting, speech and rhetorical studies, broadcast technology, or organizational communications. With a degree or certificate in communications from San Jacinto College, you can be on your way to a career in public relations, journalism, writing, or broadcasting!

Audio Engineering
Campus: C
Associate of Applied Science
Certificate of Technology

Broadcast Technology
Campus: C
Occupational Certificate
Journalism
Campus: C
Associate of Arts

Speech
Campus: C, N, S
Associate of Arts

Visual Communications
Campus: C, S
Associate of Applied Science
Certificate of Technology

COMPUTER INFORMATION TECHNOLOGY

CAREERS IN THIS FIELD

Do you like to design and build things, tinker with tools and technology, or decorate homes and offices with flooring, paint, furniture, and art? It you're in a career in one of these areas is just right for you!

Air Conditioning Technology (HVAC)
Campus: N, S
Associate of Applied Science
Certificate of Technology

Construction Management Technology
Campus: N
Associate of Applied Science
Certificate of Technology

Electrical Technology
Campus: N, S
Associate of Applied Science
Certificate of Technology

Occupational Certificate

CULINARY ART

Culinary artists are higher in the public consciousness than ever before. At first there were famous chefs, then cooking shows and magazines emerged. Now there are entire television networks, websites, and celebrity franchises dedicated to feeding the public's affection for the culinary arts. Our program allows you to work within the industry while you build your education. You will receive basic training toward becoming a cook or apprentice chef, food service manager or dietitian, or restaurant manager. The opportunities are virtually unlimited in this innovative, high-energy industry. Start at San Jac, and put yourself in the middle of the action.

Culinary Arts
Campus: C, N
Associate of Applied Science
Certificate of Technology

Occupational Certificate

DIETETICS AND FOOD SERVICES

Campus: C
Associate of Applied Science
Certificate of Technology

Restaurant Management

EDUCATION

Perhaps more than any other profession, the world needs educators. It has been said that great teachers do not decide on education as a career, rather they are called to it, which is why they are so highly valued in the eyes of society. If you feel an internal pull toward this field, your first stop should be San Jacinto College. This program is designed for those who want to have a profound, positive effect on society through our children.

Child Development / Early Childhood Studies
Campus: C, N
Associate of Applied Science
Certificate of Technology

Occupational Certificate

TEACHING DEGREES

Campus: C, N, S
Associate of Arts in Teaching (various fields)

Planning to transfer? If you plan to move on to a four-year university, we offer a wide range of programs to prepare you. Before you register for classes, you should discuss your career goals with a San Jac academic advisor. We'll make sure you're selecting courses that meet the curriculum requirements of the university you plan to attend.
GENERAL EDUCATION (The “Basics”)  
We’ve all heard of “the basics” but what does this actually mean? The Basics, sometimes called core curriculum, is required, regardless of your major. At San Jacinto College, we’ve put together specific plans to help you knock out those “basics” and apply them toward a variety of four-year degrees. The College also has strong partnerships with universities to ensure that your core curriculum is approved for transfer. You should check with the institution you plan to transfer to for specific requirements, but rest assured that San Jacinto College has your basics covered.

<table>
<thead>
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<th>Field</th>
<th>Campus</th>
<th>Degree</th>
<th>Certificate of Technology</th>
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<td>Foreign Language</td>
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<tr>
<td>English</td>
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<tr>
<td>Certificate of Technology</td>
<td>C, N, S</td>
<td>Associate of Arts</td>
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</table>

HEALTH SCIENCE

Everyone needs health care. From newborns to seniors, health care professionals are required to diagnose and treat various conditions using medical technologies while providing preventive care. Although everyone thinks of doctors and nurses when they contemplate careers in health care, there are hundreds of other specialties available including technicians, skilled support personnel, and scientists. As the baby boomer generation ages, demand for health services grows. If you feel a calling to care for others or want to pursue a profession on the cutting edge of technology, then one of these San Jac programs is right for you.

<table>
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<td>C, N</td>
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<tr>
<td>Occupational Certificate</td>
<td>N</td>
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</tr>
<tr>
<td>Eye Care Technology</td>
<td>C</td>
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<tr>
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<td>N</td>
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<td>Health Information Management</td>
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<tr>
<td>Certificate of Technology</td>
<td>N</td>
<td>Associate of Applied Science</td>
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</table>

HUMAN SERVICES

Helping other people look and feel their best is one of the most fulfilling career paths you can take. A life in cosmetology or massage therapy gives you this kind of satisfaction again and again, every day. There is no better way to enter the field than at San Jacinto College, where you'll receive the training you need to become licensed by the state as a hairdresser, manicurist, massage therapist, hair weaving and braiding specialist or cosmetology instructor. You will be prepared to work anywhere, from neighborhood salons to high-end day spas, or follow your dream and open your own business.

<table>
<thead>
<tr>
<th>Field</th>
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<tr>
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<td>Massage Therapy</td>
<td>C</td>
<td>Certificate of Technology</td>
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</table>

LAW & PUBLIC SAFETY

A career in law and public safety is not always about screaming sirens, police chases, or flying bullets. It’s more often about the important daily duties of protecting and serving the public. If you have a calling to serve others, can keep a cool head under pressure, or just love the law, then let San Jacinto College train you in a number of areas that help make our communities and neighborhoods better places to live.

<table>
<thead>
<tr>
<th>Field</th>
<th>Campus</th>
<th>Degree</th>
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<tr>
<td>Certificate of Technology</td>
<td>C, N</td>
<td>Associate of Applied Science</td>
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<tr>
<td>Legal Administrative Assistant</td>
<td>C, N</td>
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<tr>
<td>Certificate of Technology</td>
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<tr>
<td>Fire Fighter</td>
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<tr>
<td>Occupational Health and Safety Technology</td>
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<tr>
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<td>Paralegal</td>
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<td>Paralegal</td>
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Texas Median Wages

<table>
<thead>
<tr>
<th>Field</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Registered Nurse</td>
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<tr>
<td>Occupational Health and Safety Specialist</td>
<td>$60,432</td>
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<tr>
<td>Physical Therapy Assistant</td>
<td>$58,818</td>
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<tr>
<td>Respiratory Therapist</td>
<td>$52,158</td>
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<td>Emergency Medical Technician</td>
<td>$48,387</td>
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<td>Fire Fighter</td>
<td>$44,609</td>
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<td>Occupational Health and Safety Technician</td>
<td>$44,488</td>
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<tr>
<td>Substance Abuse and Behavioral Disorder Counselor</td>
<td>$39,697</td>
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<tr>
<td>Surgical Technologists</td>
<td>$37,921</td>
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<tr>
<td>Eye Care Technician</td>
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<tr>
<td>Massage Therapist</td>
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<tr>
<td>Dental Assistant</td>
<td>$32,214</td>
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<tr>
<td>Medical and Clinical Laboratory Technicians</td>
<td>$30,089</td>
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<td>Medical Records and Health Information Technicians</td>
<td>$29,531</td>
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<tr>
<td>Ophthalmology</td>
<td>$19,740</td>
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<td><strong>Source: Association of Technical Personnel in Ophthalmology</strong></td>
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Texas Median Wages

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<tr>
<td>Massage Therapist</td>
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<td>Skin Care Specialists</td>
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<tr>
<td>Hairdressers, Hair Stylists, and Cosmetologists</td>
<td>$21,565</td>
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<tr>
<td>Manicurists and Pedicurists</td>
<td>$19,740</td>
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Texas Median Wages

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<thead>
<tr>
<th>Field</th>
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</thead>
<tbody>
<tr>
<td>Occupational Health and Safety Specialist</td>
<td>$60,432</td>
<td></td>
</tr>
<tr>
<td>Paralegal and Legal Assistants</td>
<td>$45,090</td>
<td></td>
</tr>
<tr>
<td>Fire Fighter</td>
<td>$44,488</td>
<td></td>
</tr>
<tr>
<td>Emergency Medical Technician</td>
<td>$44,609</td>
<td></td>
</tr>
<tr>
<td>Social Worker</td>
<td>$30,091</td>
<td></td>
</tr>
</tbody>
</table>

Note: Other careers in criminal justice have varying salaries.
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH (STEM)

New discoveries are made every day. Scientists, technologists, engineers, and mathematicians are pushing the boundaries of human knowledge by seeking to better understand and improve the world around us. San Jacinto College can help you push your boundaries with a degree in STEM. With a STEM degree from San Jac, you can transfer on to a four-year university and pursue your dream of exploring the vast galaxies of stars, or inventing the technologies that make our lives easier.

<table>
<thead>
<tr>
<th>Program</th>
<th>Campus</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>C, N, S</td>
<td>Associate of Science</td>
</tr>
<tr>
<td>Biology</td>
<td>C, N, S</td>
<td>Associate of Science</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>S</td>
<td>Associate of Science</td>
</tr>
<tr>
<td>Chemistry</td>
<td>C, N, S</td>
<td>Associate of Science</td>
</tr>
<tr>
<td>Maritime Technology</td>
<td>C</td>
<td>Associate of Science</td>
</tr>
<tr>
<td>Geology</td>
<td>C, N, S</td>
<td>Associate of Arts</td>
</tr>
<tr>
<td>Engineering</td>
<td>C, N, S</td>
<td>Associate of Science</td>
</tr>
<tr>
<td>Engineering Design Graphics</td>
<td>C, N, S</td>
<td>Associate of Science</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>C, N, S</td>
<td>Associate of Science</td>
</tr>
<tr>
<td>Marine Technology</td>
<td>C</td>
<td>Associate of Applied Science</td>
</tr>
<tr>
<td>Geology</td>
<td>C, N, S</td>
<td>Associate of Science</td>
</tr>
<tr>
<td>Mathematics</td>
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<td>Associate of Science</td>
</tr>
<tr>
<td>Physics</td>
<td>C, N, S</td>
<td>Associate of Science</td>
</tr>
</tbody>
</table>

*Salary source: Texas Workforce Commission, www.texaswages.com, May 2012 (unless otherwise noted)

C = Central Campus; N = North Campus; S = South Campus

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- Get ahead – get your meningitis shot
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**REGISTER** for classes

**STEP 2**
**VIEW** your charges in SOS

**Step 3**
**PAY IN FULL** (all tuition and fees) by May 23 at 7 p.m. After that, you must **pay the day you register**. Payment plans are available.

For additional information or to set up an installment plan, contact any campus business office.

Registration remains open for Summer 2013 after Thursday, May 23, 2013. However, all financial obligations incurred after May 23 for Summer 2013 not covered by financial aid, installment payment plan, third party agreement, or scholarship must be paid when you register. If a class has already started, you will not be permitted to register for that specific class. There will be no late registration.

* Pay in full means your account balance is zero or you have the following applied to your account to cover your balance: financial aid, third party contract, or scholarships. You may also select the Installment Payment Plan (IPP) option online when you register which will require a first payment of one-quarter of the total charges to cover your current charges and any future charges for the term. The last day to apply for an installment payment plan for the Summer 2013 term is June 7, 2013, at 11:30 a.m. Certain fees will apply.

**Engineering Design Graphics**

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8060 Spencer Hwy.
Pasadena, Texas 77505
281-998-6150 ext. 1841

San Jacinto College North
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San Jacinto College South
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281-998-6150 ext. 3206

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