Chapter 7 - Special Programs and Facilities

Academy of Marketing Science

The Academy of Marketing Science is an international, scholarly, professional organization dedicated to promoting excellence in the creation of and dissemination of marketing knowledge. The Academy has numerous programs that sponsor future scholars and encourage thought leadership in marketing research. It is the publisher of the Journal of the Academy of Marketing Science which is recognized as one of the top 10 most cited academic journals in all of business. Effective June, 2008, the College of Business is the new home for the Academy.

Athletics Opportunities

Louisiana Tech University is a member of the Western Athletic Conference. Louisiana Tech has been a member of the NCAA since 1951. Men’s teams include football, basketball, indoor and outdoor track, baseball, cross-country, and golf. Women’s teams are basketball, indoor and outdoor track, cross-country, tennis, softball, volleyball, bowling, and soccer. This well-balanced sports program provides year-round opportunities for faculty, staff, and students to enjoy athletics on the highest level of collegiate competition.

Barksdale Air Force Base Program

Louisiana Tech has offered an on-base degree program at Barksdale Air Force Base since September 1965. The program is designed for Air Force personnel whose military assignments make it impractical for them to earn college credit and complete a degree program in the traditional manner. Civilians are permitted to participate on a space available basis. On-base offices are maintained in the Base Education Center. (http://www.barksdale.latech.edu)

Sufficient courses are offered at Barksdale for a student to earn the Associate of General Studies, the Bachelor of General Studies, and the Bachelor of Science in Electrical Engineering Technology. Courses necessary for the Alternative Secondary Teacher Education Certification are also offered. The Master of Arts degree may be earned in Counseling and Guidance and in Industrial/Organizational Psychology. The Master of Business Administration is also offered.

Bulldog Achievement Resource Center (BARC)

The Bulldog Achievement Resource Center (BARC), located on the main floor of Wyly Tower, provides learning assistance in Math, Chemistry, Biology, English, and Supplemental Instruction (SI) in various other courses that have been historically difficult for students. The BARC, which formally opened in 2007, plans to expand learning assistance to other subjects over time. Also housed in the BARC is a Writing Center providing writing assistance to students. Additionally, the BARC functions as a clearinghouse of information for students, provides supplemental advising, and makes referrals for students to other campus-based student services. For additional information, the BARC may be reached at (318) 257-4730.

Center for Applied Physics Studies (CAPS)

The mission of the Center for Applied Physics Studies (CAPS) is to provide a world-class, integrated engineering and physics educational and research environment, thereby creating opportunities for interdisciplinary studies, the sharing of resources, and the transfer of technology from basic science to engineering applications. The CAPS program, through the use of multidisciplinary research and teaching efforts, generates a profile of both engineers and physicists who are well-trained to enter a broad spectrum of careers in both physics and engineering.

The CAPS multidisciplinary research and education program combines the strengths of researchers and students from physics, biomedical, electrical, and mechanical engineering, the Institute for Micromanufacturing (I2M), and the Trenchless Technology Center (TTC). As a participant in CAPS, each member and student spends a portion of his/her time in cross-collaborative efforts in areas outside of his/her traditional area of expertise. For each project, multidisciplinary research teams are assembled consisting of undergraduate and graduate students, postdoctoral students, faculty, and collaborators from other institutions, national labs, and industry.

The major research efforts of CAPS currently span the areas of nuclear and particle physics, micromanufacturing, experimental simulations and instrumentation, and sensors. Each of the areas has received funding from agencies such as the National Science Foundation (NSF), Department of Energy (DoE), EPSCOR, LaSpace, LabOR, and private companies.

The Particle Physics Group within CAPS is involved in research in high energy, nuclear, and particle physics with major experimental projects at Fermilab, the Thomas Jefferson National Accelerator Facility (TJNAF), and CERN. In recent years, the Center has expanded its research into the area of nanotechnology, biophysics, computational electromagnetics, and grid-computing.

The Center is located on the Louisiana Tech Campus in the Engineering Annex. The CAPS facilities consist of a Linux cluster computer system, a PSpice-based Electronics Design Station, an AutoCAD Mechanical Design Station, a Detector Development Test Lab, and a Cosmic Ray Test Stand with CAMAC, VME, and FASTBUS based Data Acquisition Systems and UWB Laboratory. (http://caps.latech.edu/)

Center for Applied Teaching and Learning to Yield Scientific Thinking (CATALyST)

CATALyST, a regional science and mathematics education center housed in the School of Biological Sciences, focuses on improving the scientific and mathematical understanding of K-12 teachers, students, and parents in the public school systems with which it partners. It promotes science and mathematics education and maximizes regional educational resources by offering a menu of professional development activities and model programs to K-12 schools, teachers, administrators, university faculty, parents, students, and providers of preschool education and day care. A major focus of the center is the development of long-term professional development programs for K-12 teachers that are custom designed to meet the needs of the partnering school systems. In addition, CATALyST houses on-going nationally recognized professional development programs for K-12 teachers from throughout Louisiana and surrounding states.

CATALyST disseminates information on regional educational opportunities and programs via a CATALyST website, electronic networking, newsletters, and news releases. CATALyST sponsors a local newspaper column, CATALyST Riddles, that invites students in grades 4-8 to submit written solutions to science or math puzzles; best answers and names and schools of all students submitting correct responses are published in the following column.
Center for Biomedical Engineering and Rehabilitation Science (CyBERS)
The Center for Biomedical Engineering and Rehabilitation Science (CyBERS) has been identified as a Center of Excellence at Louisiana Tech University, first by the Louisiana State Legislature in 1985 when it was established, and recently by the University of Louisiana System in a review of all its colleges and universities. CyBERS and the Biomedical Engineering faculty have long had international acclaim for its physiological research and its rehabilitation engineering and science research and service. Through partnership with the world-class facilities and research in Tech’s Institute for Micromanufacturing, Biomedical Engineering faculty have developed expertise in the growing BioMEMS and Nanobiotechnology fields. The Center is also actively engaged in Neural Engineering research. Total external funding for Biomedical Engineering research exceeds $3M annually from a variety of sources including the Whitaker Foundation, State of Louisiana, NSF, NIH, AFOSR, VA, and US Department of Education. CyBERS is housed in the 23,000 square foot Biomedical Engineering Center. This building includes staff and administrative offices, educational facilities, and research and assessment laboratories. CyBERS’ Comprehensive Center for Rehabilitation Technology (CCRT) provides rehabilitation technology services and assessments to the State of Louisiana’s Rehabilitation Services agency and other clients. Certified specialists on staff include rehabilitation engineers, a counselor, occupational therapists and assistants, a speech/language pathologist, an adaptive driving evaluator, and a nurse (see http://www.CyBERS.latech.edu). Additional resources of the Center include craftwork shops, graphics and video studios, various vehicles used in the driver-training programs, and animal research facilities. Louisiana Tech University’s Biomedical Engineering Program is unique in the country in that it is the only engineering school-based program that directly provides clinical rehabilitation services to individuals with disabilities. Active at the state, national, and international levels, CyBERS provides opportunities for faculty and students from throughout the entire university to participate in the activities and programs of the Center.

Center for Economic Education
The Center for Economic Education in the College of Business is affiliated with the Louisiana Council and the National Council on Economic Education. The Center’s primary purpose is to promote an increased level of economic understanding in the elementary and secondary schools of its service area.

Center for Entrepreneurship and Information Technology (CEnIT)
CEnIT creates an innovative entrepreneurial culture by enhancing the education of students in information technology and entrepreneurship; promoting the development and commercialization of information technologies generated by university faculty and students; and providing leadership in entrepreneurship and information technology outreach activities that will support economic development in the state. CEnIT is a collaboration between the College of Engineering and Science and the College of Business but involves participation from every college at the institution. The CEnIT Innovation Lab is a technology-rich environment created to support interdisciplinary research, class projects and entrepreneurial activities. (www.cenit.latech.edu)

Center for Information Assurance
The Center for Information Assurance located in the College of Business is a cutting-edge research center that conducts and promotes research in information assurance. The objective of the center is to conduct research that will focus on furthering in-depth knowledge of how information security and policy impact people, technology, and organizations.

Center for Real Estate Studies
Through funding from the Louisiana Real Estate Commission, the Center for Real Estate Studies coordinates real estate research, funds real estate scholarships, and promotes interaction with real estate professionals. The Center is housed in the College of Business.

Center for Rural Development
The Center for Rural Development provides a linkage between rural residents in Louisiana and experts at Louisiana Tech University in areas that are important to rural development. These include education, nutrition, technology, small business development, community design and planning, agriculture and forestry, folk life, and the arts. The Center helps rural community leaders access the data, research, and technical assistance that is available at the University. (http://www.latech.edu/tech/rural/index.html)

The Center’s staff also works with Louisiana Tech faculty who wish to do research that pertains to rural development by helping to identify possible community partners for their work.

In addition, the Center seeks to work on rural development projects and research in collaboration with programs at other agencies, non-profits and universities – both in the State of Louisiana and throughout the country.

The Center is also a source of information about funding opportunities in areas relating to rural development and can assist community leaders and Louisiana Tech faculty and staff in identifying potential sources of funding for specific projects. On this website we list current funding opportunities and grants.

The Center issues a quarterly publication – Rural Louisiana, sponsors an annual conference on rural development at Louisiana Tech, and conducts research on topics of interest to those working in rural development in Louisiana.

The Center is entirely supported by external funding sources. The main support for the Center is provided through a special grant from USDA’s Cooperative State Research Education and Extension Service (CSREES).

Continuing Education
Today’s rate of increase in knowledge has made constant renewal of education a necessity. It is the responsibility of the University to play its part in meeting this need. Louisiana Tech University is committed to learning as a lifelong process. As a means of supporting this commitment, the Division of Continuing Education offers courses that provide learning experiences for both personal enrichment and continuing professional training. Annually, hundreds of people attend events such as non-credit seminars, workshops, and conferences offered through Continuing Education. Course offerings
range from non-credit classes to certificate (CEU) courses. Additionally, thousands of employees receive customized training annually through grants or contract training partnerships with area businesses.

Early Childhood Education Center

The Louisiana Tech University Early Childhood Education Center, operated by the School of Human Ecology, is a model education program for three- and four-year-old children. The center offers two half-day sessions during Fall, Winter, and Spring Quarters. The center serves as a learning lab for students enrolled in Family and Child Studies programs and as a clinical experience site for students enrolled in the Early/Elementary Education (PK-3) program. In addition, students from a number of disciplines observe and participate in educational programming at the center. The center is a Louisiana Class A licensed center and is accredited by the National Academy of Early Childhood Programs Division of the National Association for the Education of Young Children.

Experiential Education Programs

Experiential Education Programs at Louisiana Tech University are designed to provide quality-structured, supervised experiences for qualified students in their chosen professional fields. Experiences include practice, internships, cooperative education, clinicals, and student teaching. In many majors, the experiences are degree requirements; in other majors, the experiences are optional for students who choose to participate. Such experiences will enhance employment opportunities for students and carry academic credit. These programs also serve as an opportunity to integrate the theoretical principles studied in the classroom with the practical knowledge gained from on-the-job performance. Experiential Education Programs are provided in each academic college for a variety of academic majors. The availability of department or college opportunities should be discussed with the respective program director or department head.

Institute for Innovation and Development in Engineering and Science (I.D.E.A.S.)

The College of Engineering and Science Institute for Innovation and Development in Engineering and Science (Institute for I.D.E.A.S.) provides for the professional development and growth of the faculty and staff. Through seminars, conferences, and workshops, the faculty and staff learn new and better ways to teach and administer to students, to improve their skills in scholarly activities, and to provide opportunities for professional and technical service-related ventures. Innovative teaching and learning techniques, use of technology both in a regular classroom setting and by distance learning, improved communication and teamwork techniques, program accreditation procedures, integrated curricula development, quality training, and outcomes assessment are just a few of the types of programs that are conducted through the Institute for I.D.E.A.S. The vision of the Institute is to help faculty and staff make a positive impact in their own personal development and to enhance their abilities to serve the students, the university, and the state.

Institute for Micromanufacturing (IfM)

Since its inception over a decade and a half ago, the Institute for Micromanufacturing (IfM) has been in the forefront of integrated multidisciplinary research, education, and technology commercialization. Starting from its original micromanufacturing emphasis, the Institute’s research and educational efforts have grown and expanded significantly to its current five thrust areas of emphasis, identified as Nanotechnology, Biotechnology, Biomedical Nanotechnology, Environmental Technology, and Information Technology. The activities carried out through these thrust areas, coupled with the Institute’s integrated nanomanufacturing and micromanufacturing resources, have led to the realization of a broad range of research, educational and commercialization efforts. These include the development of novel micro/nano scale systems for biomedical, biological, environmental, chemical, information technology, and other applications.

The Institute’s vision is to be a world-class resource for the realization of commercially-viable micro- and nanosystems, contributing to the economic infrastructure of Louisiana and the nation and benefiting humanity as a whole.

Its mission is:
- To enable research and development of novel micro- and nanoscale technologies and systems for biomedical, biological, chemical, environmental, and information technology
- To generate and harness commercially viable intellectual property
- To partner with industry, government, and academia in economic development
- To transfer new technology and provide technical training to industry and government
- To develop curricula and educate students in micro- and nanoscale technologies and systems

There are over 30 engineering and science faculty and postdoctoral scholars associated with the IfM, which also has a support staff of 15, including research engineers and specialized technicians. The Institute faculty and staff have training and expertise in a wide range of science and engineering fields, including chemistry, physics, biology, materials science, computer science, mathematics and statistics, biomedical engineering, chemical engineering, electrical engineering, mechanical engineering, industrial engineering, and civil engineering.

The IfM consists of three components, totaling 65,000 sq. ft. of user facilities. These are the R & D user facility at Louisiana Tech University in Ruston, LA; the X-ray beam lines and lithography processing facility at the Center for Advanced Microstructures and Devices (CAMD) in Baton Rouge, LA; and the Technology Transfer Center in the Shreve Industrial Park in Shreveport, LA. The R & D user facility is housed in a modern 41,000 sq. ft. building, designed specifically for research and development in micro/nano scale technologies and systems. The R & D complex includes classroom and conference rooms, faculty and staff offices, research and instructional laboratories, and a 144-seat auditorium. Laboratories occupy 20,000 sq. ft. of environmentally controlled workspace, and contain 5,000 sq. ft. of modular clean rooms. The laboratory facilities provide a full suite of micro- and nanomanufacturing capabilities, and a comprehensive set of measurement and characterization tools, as well as modeling and simulation software. (ifm-marketing@latech.edu or http://www.latech.edu/ifm/)
Larson Test Preparation Center
The Larson Test Preparation Center is a resource library made possible through the College of Education and by the generous gift of the Estate of Elizabeth Nobles Larson. The main purpose of the center is to assist teacher candidates with preparation for PRAXIS and GRE examinations required for teacher certification. The test center offers PRAXIS and GRE study guides, K-12 textbooks, and other education books for checkout and/or reference. There is also a software program (PLATO) which contains simulated PPST exams with an individualized assessment for each of the three sections and tutorials as needed. For additional information, you may contact one of the following: Ms. Melanie Gleason, Certification Counselor (318) 257-2849; Dr. Dawn Basinger, Assessment Coordinator (318) 257-3950; or Dr. Jo Ann Dauzat, Dean, College of Education (318) 257-3950.

Lomax Hall Horticultural Conservatory
The public is welcome to visit the Lomax Hall Conservatory and greenhouses. The Conservatory contains a permanent collection of tropical flowering and fruiting ornamental plants enhanced by seasonal displays of poinsettias, chrysanthemums, bulbs, and bedding plants. The greenhouses are used for educational and teaching activities including propagation, production, and demonstration. The Agricultural Sciences Department provides assistance with individual or group tours.

Louisiana Forest Products Development Center
The Louisiana Forest Products Development Center (LFPDC) is part of the School of Forestry, Louisiana Tech University, and the School of Renewable Natural Resources, LSU AgCenter. The Center attempts to not only develop new technology and products that will add value to forest products, but assure that it is adopted and put into the marketplace and ultimately made available to the consumer, thus improving quality of life for the consumer and improving the economy of the state. The LFPDC was originally established by the Louisiana Legislature as the Louisiana Forest Products Laboratory at both the LSU Agricultural Center and Louisiana Tech University, to provide technical assistance and help in development of value-added processing. To address the needs of Louisiana, the scope of the Lab was broadened in 1994 to include the whole value chain from the forest to the consumer. Overall, the goal of the LFPDC is to aid the state’s economy and well being of its people through forest sector development. Visit our website: http://www.mnr.lsu.edu/lfpdc or http://www.ans.latech.edu/forestry-index.html

Louisiana Tech Astronomy Facilities
The astronomy facilities of Louisiana Tech can be used for classroom and laboratory instruction and also for instructional demonstrations to visiting school groups and interested public groups. The facilities at the present time include a Planetarium on the main campus and an Observatory at the Research Park located about 11 miles west of the main campus. The observatory has an eleven-inch reflecting telescope maintained by the Physics Department. A 10-inch Smidt-Cassagrainian mount telescope is also in use.

The Planetarium seats 120 people under its 40-foot diameter dome. A Spitz A4-type instrument projects the sun, moon, and planets as well as about 3,000 visible stars, giving a correct and realistic simulation of the celestial view. The star projector combines with twelve automated slide projectors and a video projector to give visitors an impressive multimedia experience synchronized by a state of the art Theater Control System designed to present accurate, up to date astronomical information. Over 15,000 K-12 students visit the facility each year. Tech students utilize the facility for both academic and leisure activities. The annual Christmas shows attract large numbers of students as well as people from the surrounding communities. (http://www.latech.edu/planetarium)

Louisiana Tech Concert Association
The Louisiana Tech Concert Association (LTCA) seeks to enrich the lives of Tech students and members of the various communities with North Central Louisiana by bringing to Howard Auditorium the world’s best music, dance, and theatre as performed by professional artists. LTCA is managed through the School of the Performing Arts. For more information regarding current programming, access the following website: http://performingarts.latech.edu

Louisiana Tech Enterprise Center
The Louisiana Tech Enterprise Center (LaTEC) opened for business in November of 2005 on the north side of the Louisiana Tech University campus. Our headquarters is located at 509 West Alabama, but in February 2007 we added additional space in the new Biomedical Engineering Building next to the Institute for Micromanufacturing (IM) and Collaboration Alley. LaTEC (www.enterprise.latech.edu) houses the Louisiana Tech Technology Incubator (LTTI) and the Technology Business Development Center (TBDC). As the primary business support and development outreach arm of the University, LaTEC is designed to facilitate and promote the growth of new and existing ventures in the innovation enterprise in the I-20 corridor of north Louisiana.

The Center’s incubation space and business development services are focused on early-stage technology companies with a connection to Louisiana Tech University. In addition, the outreach activities and services of LaTEC, primarily through the TBDC, serve clients throughout the I-20 corridor of north Louisiana. Under certain circumstances this region can be expanded to include companies or prospective companies in any other Louisiana parish or, for certain limited services, to prospective companies interested in locating in north Louisiana. The services of the TBDC are provided to primarily technology businesses. A technology business is a business that derives the majority of its gross receipts from the design, development or creation (for lease, sale, or license) of technology-based products, processes or related services.

In addition to low-cost office space, shared equipment, research and product development facilities, and a synergistic work environment, LaTEC offers an extensive array of services to client businesses. These services are organized into seven tiers: (1) Entrepreneurial Infrastructure, (2) Entrepreneurship Development, (3) Venture Exploration, (4) Planning Startup, (5) Startup, (6) Growth and Expansion, and (7) Exit.

Louisiana Tech Equine Center
Student instruction, nutrition and reproductive research, therapeutic riding, and continuing education courses are offered as an integral part of Tech’s popular equine program within the Department of Agricultural Sciences. The Equine Center, located on approximately 50 acres on Tech’s South Campus, includes pastures for grazing and/or hay production, 12 paddocks, a 16-stall training barn, and an 8-stall stallion barn. The Equine Center typically maintains horses of various breeds year round.
Louisiana Tech Museum

The Louisiana Tech Museum was established July 1, 1982, with the objectives of fostering scholarship at the University, encouraging research by faculty and students, helping educate area school children, and being a cultural center for the region. Numerous exhibits represent the fields of anthropology, archaeology, architecture, art, biological sciences, geology, history, and technology. More than 10,000 artifacts are included in the Indian collections. The museum is not just for viewing but is also a place where study and research can be conducted.

Louisiana Tech Public Service Information Center

The Center, which is housed in the Research Division of the College of Business, maintains and processes data from the 1970, 1980, 1990, and 2000 Censuses of Population and Housing as well as personal income data furnished by the U.S. Bureau of Economic Analysis. Computer programs and projects have been developed to generate demographic and economic analyses for the State, regions in the State, and selected areas of the Nation. Short reports, articles, and research projects are prepared, both on an in-house and on a contractual basis, for local, state, and regional organizations.

Louisiana Tech Speech and Hearing Center

The Louisiana Tech Speech and Hearing Center provides diagnostic evaluations and treatment for Louisiana Tech students, as well as individuals of all ages with speech, language, and/or hearing disorders. Located in Robinson Hall, the Center accepts referrals from all sources for its services, which include speech, language, and hearing evaluations; hearing-aid evaluation/dispensing; speech-language therapy; and aural rehabilitation. These services are provided by graduate student clinicians under the direct supervision of faculty who are licensed and hold the Certificate of Clinical Competence in Speech-Language Pathology and/or Audiology awarded by the American Speech-Language-Hearing Association. For more information, contact the Speech Department at (318) 257-4764.

Louisiana Tech Teachers’ Institute

The Teachers’ Institute reflects Louisiana Tech University’s long-standing commitment to promoting and enhancing the quality of elementary and secondary education. The primary purposes of the Institute are to provide a formal linkage between faculty in Applied and Natural Sciences, Liberal Arts, Engineering and Science, Business, and Education with public school teachers; to provide a university structure for the development of faculty joint projects; and to provide an administrative structure for the development of grant proposals. Faculty expertise in the various discipline areas are made available to teachers through workshops, courses, and other activities. Specifically designed courses are taught by the faculty to expand the teachers’ knowledge base and to up-date them on the latest developments in the field.

Museum of Fashion and Textiles

The Museum of Fashion and Textiles at Louisiana Tech University was established to preserve and exhibit the fashion heritage of the North Louisiana area. The collection, initiated in 1976 as a result of a donation of fifty garments from a private collection of Virginia Laskey of Ruston, was organized formally as a museum in 1983. Conservation techniques were implemented and professional standards were emphasized. Items were cataloged as (1) Fashion, or costumes, and accessories, (2) Textiles, and (3) Paper (patterns, magazines, catalogs, and photographs). Since 1993, the Museum has been housed in the School of Human Ecology, located in Carson Taylor Hall. In 2000, the Museum inherited a vast collection of treasures from the estate of Winifred Spencer Williams, which increased the collection size to over 3000 pieces. The Museum is the only one of its type in Louisiana as well as in surrounding states. The collections represent a comprehensive array of women’s fashions from the late 19th Century and the 20th Century. The collections are an educational tool for university classes in historic costume, apparel evaluation, fashion design, and dramatic arts. Students have the opportunity to view dress from 1880 until the present. Historical and documentary research is possible in the areas of conservation, preservation, environmental conditions, or a particular facet of fashion and fabric design. Periodic exhibits are open to the public and private showings/seminars are also available. Contact the School of Human Ecology (318-257-3727) for more information.

NASA Educator Resource Center (NASA ERC)

The NASA Educator Resource Center is a repository of exemplary science and math materials made available to educators by NASA. Louisiana Tech was selected by NASA in 1999 to serve as the host institution for the ERC serving the entire state of Louisiana. The ERC is housed in the College of Education as a component of SciTEC. (http://www.lathec.edu/ideaplace/erc/)

Pre-Professional Programs

Louisiana Tech University provides excellent preparation for the student planning a career requiring advanced study in specialized programs.

Pre-Law

Because of the diversity and complexity of this discipline, there is no single curriculum or course of study which is prerequisite to or guarantees success in law school. Students who intend to study law are referred to the Pre-Law concentration in the Department of Social Sciences, College of Liberal Arts. A choice can then be made based upon personal preference and future goals.

Pre-Medicine and Pre-Dentistry

In pre-medical and pre-dental preparation, a student’s major need not be one in a field of science; however, experience shows that the majority of applicants to medical or dental school will have a science major. Students are urged to follow their personal inclinations in selecting a major, recognizing that a physician or dentist should have a broad educational background.

The Pre-medical and Pre-dental Advisory Committee is composed of faculty members representing the disciplines of Biomedical Engineering, Biological Sciences, Chemistry, and English-Honors. Students should select a major and plan a course of study in consultation with a pre-medical or pre-dental advisor.

The minimum requirements for most medical and dental schools include one year each of Biology with lab, General Chemistry with lab, Organic Chemistry with lab, General Physics with lab, Mathematics, and English. Also, applicants are required to submit scores on the Medical College Admission Test (MCAT) or the Dental Admission Test (DAT). The test should be taken in the spring of the junior year prior to application. It is strongly suggested that these examinations not be attempted until courses in genetics, comparative anatomy, animal physiology, organic chemistry,
biotechnology, biochemistry, and physics have been successfully completed.

In the spring of each calendar year, personal interviews are conducted by the Pre-medical and Pre-dental Advisory Committee for the purpose of evaluating those students preparing to make formal application to either dental or medical school. This interview is a very important part of the student’s application process. After the interview, the Committee prepares recommendations that will be forwarded to the Admissions Committee of the professional schools to which the student has applied.

Alpha Epsilon Delta (AED) is a national pre-medical and pre-dental honor society which is open to students possessing a minimum grade point average of 3.20 and at least 40 semester hours of course work.

**Pre-Veterinary Medicine**

Students wishing to pursue a career in veterinary medicine are referred to the Pre-Veterinary Medicine Concentration in the Animal Science curriculum. Those who have earned an exceptional grade point average and an acceptable score on the Graduate Record Examination (GRE) may wish to apply for admission to veterinary school during their junior year. These students may become candidates for the B.S. degree in Animal Science after completing the first year of work at a veterinary school.

For assistance in planning a course of study, students should consult with the Pre-Veterinary Medicine advisor in the Department of Agricultural Sciences, College of Applied and Natural Sciences.

**Other Health Science Programs**

Louisiana Tech offers degree programs in the health science areas, including Nursing, Dietetics, Health Information Management, and Medical Technology.

**Nursing:** Advisors for the Associate Degree program in Nursing are located in the Division of Nursing, College of Applied and Natural Sciences.

**Dietetics:** Programs in Dietetics include an undergraduate didactic program, a post-baccalaureate internship, and a graduate program. These are found in the School of Human Ecology, College of Applied and Natural Sciences.

**Health Information Management:** An Associate Degree program in Health Information Technology and a baccalaureate program in Health Information Administration are offered both on campus and electronically. The Master of Health Information Management is offered only electronically through the Department of Health Information Management, College of Applied and Natural Sciences.

**Medical Technology** is a baccalaureate degree program located in the School of Biological Sciences, College of Applied and Natural Sciences.

In addition, there are many other health careers for which Louisiana Tech can offer prerequisite courses to prepare students to enter a professional program at another institution. These pre-professional areas are listed below with the department and college in which they are offered:

- **Cytotechnology**, nuclear medicine technology, respiratory therapy, histological technology, physician’s assistant, occupational therapy, physical therapy, surgical assistant, and radiologic technology are in the School of Biological Sciences, College of Applied and Natural Sciences.

- **Pre-Optometry** and **Pre-Pharmacy** are in the School of Biological Sciences, College of Applied and Natural Sciences.

- **Pre-Professional Speech-Language Pathology** is in the Department of Speech, College of Liberal Arts.

Students interested in any of the health science programs named above should contact the department head in whose department the curricula are shown.

**Prescott Memorial Library**

Centrally located in the heart of campus activities, Prescott Memorial Library offers a full array of information resources and services.

The Library houses an extensive and well-balanced collection of informational sources including over 1.5 million volumes, over 2,700 current periodical subscriptions, over 35,000 maps, and extensive electronic resources. Tech’s library is one of only fifty-three U.S. Government Regional Documents Depositories, and it is a depository for Louisiana State Documents, USGS Maps, and Department of Energy Contractor reports. Other facilities within the library include the Electronic Reference Center with 35 computer workstations for research, the Electronic Classroom with workstations for library instruction, and the Student Technology Laboratory with over 50 computer workstations providing Internet access and productivity software. Secure wireless network access is available on all floors.

Many library services and resources are located on the main floor, easily accessible upon entering the building. Included on the main floor are reference, government documents and reserve book collections, as well as the Electronic Resource Center, the Circulation Desk, and to assist with reference inquiries, the Information Desk.

The third floor contains the complete periodical collection including microforms and the Forestry Library. Upper floors (five-nine) house the main book collection and provide quiet study space for group and individual use.

Located on the fourth floor are collections for more specialized research. The American Foreign Policy Center is a continuing collection of microfilmed primary source material for the study of U.S. foreign policy. The Department of Special Collections, Manuscripts, and Archives is comprised of the University Archives, the Forestry Archives, the William King Stubbs Architectural Archives, the Camp Ruston collection, and other manuscript collections documenting the history of the University and the region, as well as rare books, maps, and other materials.

The library’s faculty and staff welcome the opportunity to serve the students and faculty of the Louisiana Tech University academic community. The library home page is [http://www.latech.edu/library](http://www.latech.edu/library).

**Professional Development and Research Institute on Blindness**

This Institute builds on a long standing relationship with the Louisiana Center for the Blind and Louisiana Tech. Its primary focus is initiatives on professional development opportunities for teachers of the blind, development of appropriate curricula and materials for these individuals, development of curricula for preparing teachers of the blind, research on issues of education for blind persons, and dissemination of research and development results. The overall goal of the Institute is to advance the blindness field by providing the blind and professionals serving the blind with innovative programs and conducting meaningful research that will empower blind people to live independent and productive lives. The Institute is designed to address the needs of the over 16,000 Louisiana blind citizens who have significant education/training needs.

**Psychological Services Clinic**

The Psychological Services Clinic is part of the Psychology and Behavioral Science Department. The Clinic offers affordable psychological counseling and assessment services to members of the community. The Clinic is staffed by masters and doctoral students.
who are supervised by licensed psychologists. The Clinic works with the District Attorney’s office to provide services for the Pre-Trial Diversion Program and the Truancy Program.

**School of Art Galleries**

To promote the understanding of contemporary art, the School of Art administers two galleries within the Visual Arts Center. Artists from across the United States annually display a wide variety of creative work chosen by the Gallery Committee. The galleries offer receptions for the artists where visitors may converse with and/or listen to lectures from the exhibiting artists. Admission is free and open to the public.

**Science and Technology Education Center (SciTEC)**

This is an active outreach program of the College of Education organized to serve the surrounding school systems and communities. Activities of the Center include six broad initiatives: professional development programs for in-service teachers, collections of exemplary math and science materials, exemplary undergraduate math and science education, the IDEA Place and Planetarium, the NASA Education Resource Center, and community outreach activities. SciTECH activities are supported exclusively by external funds awarded by such agencies as the National Science Foundation, the Math Science Education Act (MESA), the Louisiana LEARN Commission, the Louisiana Systemic Initiative (LaSIP), the Louisiana Collaborative for Excellence in the Preparation of Teachers, the Louisiana Board of Regents, and private foundations such as the Toyota Foundation and the Rapides General Hospital Foundation. (http://www.latech.edu/scites)

**Spatial Data Lab**

The Spatial Data Lab (SDL), created in 1999, is a state-of-the-art high tech facility used for teaching and research purposes. The SDL has 25 PCs running Windows XP Professional on a Windows 2000 network and runs all ArcGIS programs, and ERDAS as well as software for GPS and general computing needs. For hardcopy data input, the SDL houses a large format scanner and digitizer. For hardcopy data output, the SDL has a large format color printer and several smaller printers. Some data from the research projects conducted in the lab as well as other types of data for Louisiana are stored on the server and are available over the internet for download. The SDL hosts a full range of Geographic Information Science training options ranging from academic to continuing education courses offered in traditional and distance learning formats. For more information on the SDL or training opportunities in the SDL, visit us at [http://sdlab.latech.edu/](http://sdlab.latech.edu/).

**Study Abroad Programs**

Louisiana Tech University encourages its students to participate in varied educational experiences including academic programs that foster opportunities for culturally enriching experiences outside the United States. The University currently offers several avenues for study abroad:

- The University offers specialized study abroad courses or programs through individual academic units at Louisiana Tech University. Some current offerings include study abroad opportunities to Costa Rica (Foreign Languages), London (Theater and English), Florence (History), and Paris (Art). Proposals for these courses or programs are reviewed by the College Review Tour Committees and the University Tour Committee.
- In order to further the international education of its student body, the University has available Summer Study Abroad Scholarships. These scholarships are offered competitively on an annual basis to students of junior or senior standing seeking to enrich their educational experience by participating in an international travel program while taking courses in their major field of study. Finalists are interviewed by the Committee on International Education. Information and application requirements can be found at: [www.latech.edu/administration/academic-affairs/ug-study-abroad-scholarship](http://www.latech.edu/administration/academic-affairs/ug-study-abroad-scholarship)
- CODIFIL, the Council for the Development of French in Louisiana ([www.codofil.org](http://www.codofil.org)) and MICFA, the Interuniversity Mission for the Coordination of Franco-American Exchanges provide opportunities for study at sixteen universities in and around Paris, France. ([www.micfa.org](http://www.micfa.org))
- Louisiana Tech University is a member institution of two organizations which offer students a wide variety of already-developed study abroad opportunities at locations throughout the world: Council on International Educational Exchange ([www.ciee.org](http://www.ciee.org)) and The Institute of International Education ([www.iie.org](http://www.iie.org)).

For additional information about study abroad opportunities, contact William T Willoughby, Director of Study Abroad Programs at Louisiana Tech University, Study Abroad Office, P. O. Box 10018, Ruston, LA 71272; or by calling (318) 257-2660.

**Technology Business Development Center**

The Technology Business Development Center (TBDC) supports and facilitates the establishment, growth, and success of technology-based businesses along the I-20 corridor. The Center provides information, counseling services, and educational opportunities for entrepreneurs that are planning, starting, growing, operating, or exiting technology-oriented business enterprises in the region. This Center generates and disseminates information about the entrepreneurial infrastructure in north Louisiana. The TBDC advocates for entrepreneurship, promotes innovation, increases awareness of entrepreneurship, and encourages the exploration of innovative opportunities. Basic assistance for startups and continuing management support for new ventures, growing firms, and mature operations is provided by the TBDC. Assistance and support available through the Center are specifically tailored to meet the needs of entrepreneurs who are investigating and pursuing business enterprises based on useful new technologies or unique applications of technology that have the potential to create high quality employment opportunities in Louisiana. ([http://www.enterprise.latech.edu/](http://www.enterprise.latech.edu/))

**Technology Transfer Center Shreveport**

The Technology Transfer Center – Shreveport is located in a new modern educational facility with distance learning capabilities. Louisiana Tech University offers selected undergraduate and graduate coursework, workshops, and conferences addressing the educational needs of northwest Louisiana. The Technology Transfer Center serves as a partner with business, industry, and the medical community in economic development activities related to engineering and technology. ([www.coes.latech.edu/ttcs/index.html](http://www.coes.latech.edu/ttcs/index.html))
The IDEA Place

The IDEA Place (Investigate, Discover, Explore, Ask) is a hands-on children’s museum designed to provide children and adults an opportunity to experience the excitement of learning about mathematics and science through interactive activities. School groups visit on field trips while pre-service education majors serve as guides. Education majors are encouraged to interact with students and gain valuable pre-student teaching experiences as children explore a variety of phenomena ranging from geologic digs to reflecting in a kaleidoscope.

The essence of the IDEA Place is its interactive exploration of scientific phenomena. The Center now houses the Experiment Gallery, a collection of over 35 interactive hands-on exhibits designed by the Science Museum of Minnesota with funding from the National Science Foundation. The Experiment Gallery features exhibits in each of the following theme areas: Electricity, Weather, Sound and Waves, Light and Optics, and Mechanics. At the Activity Station, preservice teachers provide opportunities for visiting groups to see scientific demonstrations and for participation in a variety of experiments. The Resource Room is available for visitors to further explore topics of interest. Over 15,000 K-12 students visit the IDEA Place each year. (www.latech.edu/ideaplace/)

Trenchless Technology Center (TTC)

The Trenchless Technology Center (TTC) is a university/industry cooperative research center under the College of Engineering and Science. The Trenchless Technology Center (TTC) was initiated as the Trenchless Excavation Center in 1989 and formally established as the Trenchless Technology Center in November 1991. In addition to its research activities, a strong effort has been focused towards the education of engineers, contractors, government agencies and others about the availability and capabilities of trenchless methods for the solution of difficult underground infrastructure problems.

The strategic directions of the TTC are guided by an active Industry Advisory Board (IAB) which also provides core financial support for the Center. The Center currently has 36 Board members (11 public works members, 9 industry members, 5 association members, 9 consultant members and 2 media members). Adding an International perspective, Dr. Ray Sterling, TTC director, has served a three-year term as Chairman of the International Society for Trenchless Technology and has made over 45 keynote or invited international presentations in 18 different countries while at the TTC.

The faculty members associated with the TTC represent engineering, chemistry, computer science, mathematics, statistics, and business. While concentrating on below-ground infrastructure, the Center’s activities in recent years have had broad application to a wide range of urban infrastructure systems.

In 2007, the first phase of the unique, National Trenchless Technology Facility (NTTF) was dedicated. Built and equipped almost entirely with external funds, this is a one-of-a-kind 5,140 sq. ft. facility includes a 3,430 sq. ft. high-bay research laboratory with overhead crane, 3 ft-thick strong floor, and a 20 ft x 20 ft x 11 ft high soil test chamber that will facilitate academic and prototype development studies related to the design procedures and performance of underground utility installations. The next phase of construction will add to the length of the high bay and will create a matching suite of smaller research laboratories and graduate student spaces. Research activities at the Center are supported by the National Science Foundation (NSF), the Louisiana Board of Regents, other State agencies, and industrial partners.