SOUTH TECH

Who should apply?

- Current 10th & 11th grade students
- Students enrolled and in good standing at their home high school

How are programs offered?

- South Tech's programs are designed to be a two-year, real world immersion into a college major and career. Most students begin in their junior year and continue their senior year. Some one-year senior opportunities are available. Please ask the South Tech Admissions Representative for more information.
- All programs are half-day:
  1. Take academic classes at your home school
  2. Take technical classes at South Tech
  3. CTE credits are sent to your home school and included on your transcript

How do you apply?

- See your counselor
- Applications are available online at http://www.southtechnical.org

When do you apply?

- The year before you would like to attend; select programs will accept juniors in January. Talk to your Admissions Representative to see if you would be eligible.

Want more information?

- Visit our website: http://www.southtechnical.org
- Contact your Admissions Representative, Katie Miller, at 314.989.7472 or the Admissions Office at 314.989.8521.

NOTE: Parkway may accept credits awarded by the SSD to Parkway students attending (on a part or full-time basis) a SSD technical high school. Transcripts are to indicate when the student attended and which courses were completed at the technical high school. Parkway grade point averages (GPA's) and class rankings will be based only on course work completed in Parkway high schools and transferred in from a previously attended accredited high school. Parkway students completing their high school requirements on a part or full-time basis at a Special School District of St. Louis County technical high school may be eligible to receive a Parkway diploma from the Parkway school within whose boundaries they reside, provided they have satisfied both State and Parkway requirements.

SOUTH TECH

AUTO COLLISION REPAIR

Auto Collision Repair focuses on the repair and appearance of the interior and exterior of vehicles. Students learn how to assess, estimate, and repair using modern welding, sanding, masking and painting techniques using the same advanced equipment found in professional auto collision repair companies. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: Universal Technical Institute, 12 units. CERTIFICATIONS OFFERED: Automobile Service Excellence (ASE) Student Certification in Nonstructural/Paint & Refinishing, S/P2 Safety Certification*

AUTOMOTIVE TECHNOLOGY

Automotive Technology is driven by the 4 main systems of vehicle operation - brakes, suspension and steering, engine performance, and electrical / electronics, students will diagnose, service, and repair a wide range of vehicles alongside their ASE certified Master Technician instructor. The classroom includes training in the use of modern diagnostic equipment in preparation for multiple ASE certifications. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: Universal Technical Institute, 12 units. CERTIFICATIONS OFFERED: Automobile Service Excellence (ASE) Student Certification in Brakes, Electrical, Engine Performance, Suspension, S/P2 Safety Certification*

CARPENTRY Grade: 12 Only

Carpentry - Students will build a skill set that includes framing, estimating, roofing, and interior finishing and learn how to read and interpret blueprints. They will build structures using a wide range of professional power tools and carpentry materials while earning apprenticeship and college credit. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One. PRE-REQUISITES AT TIME OF SENIOR YEAR ENROLLMENT: Minimum of 11 core credits (2.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: St. Louis Community College, 6 credits. APPRENTICESHIP CREDIT OFFERED: Carpenter's Apprentice, 1 - 3 days of Pre-Employment Course, 1 specialty or elective unit of training, advanced placement testing in related areas per joint agreement with the St. Louis Carpenters Joint Apprenticeship Program • Construction Craft Laborers - credit for 40 hours of apprentice training and 500 hours of on-the-job training. CERTIFICATIONS OFFERED: Home Builders Institute (HBI) – Pre- Apprenticeship Training Core Certification • Occupational Safety and Health Administration (OSHA) – 10 hour Construction Industry*

CISCO-NETWORKING ACADEMY

Cisco Networking Academy is an honors course in which students learn how to design, install and troubleshoot complex computer networks. They will navigate a variety of projects as they complete Cisco's online curriculum in preparation for their certification exams. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English, 1 must be Algebra), on track to graduate. COLLEGE CREDIT OFFERED: St. Louis Community College, 10 credits • St. Charles Community College, 25 credits • Jefferson College, 5 credits. CERTIFICATIONS OFFERED: CompTIA A+ Certification, Cisco Certified Entry Level Network Technician (CCENT) Certification*

SOUTH TECH

CONSTRUCTION INNOVATIONS

Construction Innovations - Students customize a year or semester of construction exploration to match their interests by choosing from a variety of quarter long courses which offer a solid foundation of basic knowledge and experience. Upon completion of the course, students can continue into an Advanced Construction course senior year. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. CERTIFICATIONS OFFERED: Home Builders Institute (HBI) – Pre-Apprenticeship Training Core Certification • Occupational Safety and Health Administration (OSHA) – 10 hour Construction*

COSMETOLOGY

Cosmetology is an exclusive high school program offering the same curriculum as a beauty college without tuition costs. All aspects of cosmetology including all hair, nail, and skincare services are included. Students learn in a full-service salon along with classroom instruction from licensed Cosmetologists. By graduation, students will have had the opportunity to earn all of the hours required to take their Missouri State Board certification exam to become a licensed cosmetologist. **Students MUST begin this program at the start of their junior year - no mid-year or senior enrollment is available. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits and 12 total credits (1.5 must be English), on track to graduate. CERTIFICATIONS OFFERED: Cosmetology Missouri State Board of Certification*

CULINARY ARTS

Culinary Arts is taught in a modern, fully equipped, restaurant style kitchen as required by the American Culinary Federation for certification. Students plan, prepare, and cater meals alongside professional chefs in both the classroom, compete at various competitions throughout the year, and participate in exclusive mentorship and shadowing program with some of our region's most recognized culinary leaders. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: St. Louis Community College, 5 credits • Sullivan University, 3 credits • Illinois Institute of Art, 20 1⁄4 hours • Johnson and Wales University, 13.5 1⁄4 hours • Robert Morris University, 9 1⁄4 hours. CERTIFICATIONS OFFERED: American Culinary Federation Certification • Servsafe Certification*

DENTAL SCIENCES

Dental Sciences gives students a clinical experience in the classroom and through internships available during the senior year. Our modern operatory allows students to conduct mock exams and perform X-rays, preventative practices, and emergency care using professional dental equipment. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 2 CTE & 1 Science in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: Missouri Baptist University, Dual Credit, 8 credits. CERTIFICATIONS OFFERED: Dental Assisting National Board, Missouri Test of Basic Dental Assisting Skills • CPR Certification • Permit to Assist The Administration of and Monitor Nitrous Oxide Analgesia*

SOUTH TECH

Design & Entrepreneurship

Design & Entrepreneurship is an engaging program that provides students the opportunity to learn the fundamental skills of three dimensional design using cutting edge design software, hands-on building of prototypes of their designs in our State of the Art MAKES lab, and the concepts of design thinking. Throughout the program students will meet entrepreneurs, network with industry professionals and collaborate with their peers to solve real world problems. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. CERTIFICATIONS OFFERED: Occupational Safety and Health Administration (OSHA) – 10 hour Certification*

EARLY CHILDHOOD EDUCATION

Early Childhood Education turns students into teachers in our certified preschools as they research, create, and implement lesson plans while learning effective preschool teaching techniques. Upon graduation, students will have a portfolio of work to present to colleges and/or employers. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: St. Louis Community College, 6 credits. CERTIFICATIONS OFFERED: American Association of Family & Consumer Sciences (AAFCS) – Early Childhood Certification • CPR and First Aid Certifications*

ELECTRICAL TRADES Grade: 12 Only

Electrical Trades teaches students how to design, stage, and install commercial and residential electrical wiring for power and telecommunications systems. Skills taught include blueprint interpretation, layout, design, and programming equipment and an emphasis on logical thinking. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One PRE-REQUISITES AT TIME OF SENIOR YEAR ENROLLMENT: Minimum of 11 core credits (2.5 must be English, 1 must be Algebra), on track to graduate. COLLEGE CREDIT OFFERED: American Trade School, 12 ¼ hours. APPRENTICESHIP CREDIT OFFERED: Construction Craft Laborers - credit for 40 hours of apprentice training and 500 hours of on-the-job training. CERTIFICATIONS OFFERED: Home Builders Institute (HBI) – Pre-Apprenticeship Training Core Certification • Occupational Safety and Health Administration (OSHA) – 10 hour Construction Industry*

Electronics & Robotics Engineering

Electronics & Robotics Engineering explores the complex electrical, electronic, mechanical, and robotic components used in manufacturing and industry is the goal of this course. Students will also design and program robots for the annual FIRST Robotics Competition using modern equipment and techniques. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: St. Louis Community College, 4 credits. CERTIFICATIONS OFFERED: International Society of Certified Electronics Technicians (ISCET) – 4 certifications in DC Electronics, AC Electronics, Semiconductor, and Digital Electronics*

SOUTH TECH

EMERGENCY MEDICAL TECHNICIAN

Emergency Medical Technician is real world emergency scenarios aid as students are trained to perform detailed trauma patient assessments using advanced medical and diagnostic equipment. Operation of emergency response and rescue vehicles is also a course component. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One. PRE-REQUISITES AT TIME OF SENIOR YEAR ENROLLMENT: Minimum of 11 core credits (2.5 must be English, 2 must be math, 1 must be lab based science), 17 total credits, on track to graduate. ADDITIONAL PREREQUISITES AT TIME OF APPLICATION: "C" or higher in last semester of English, 1 credit of Algebra or concurrent enrollment projected. COLLEGE CREDIT OFFERED: St. Louis Community College, 10 credits. CERTIFICATIONS OFFERED: Emergency Medical Technician Basic certification through National Registry, National First Responder certification, Hazardous Materials Awareness and Operations certification*

FIREFIGHTING

Firefighting is an academy level course that allows students to do the bulk of their required Fire Academy hours at the high school level. Using a wide range of firefighting and life-saving equipment, students develop their skills through rigorous mental and physical training while learning the foundational skills required for Fire 1 and Fire 2 certifications. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One. PRE-REQUISITES AT TIME OF JUNIOR ENROLLMENT: Minimum of 7 core credits (1.5 must be English, 1 must be math, 1 must be lab based science), on track to graduate. ADDITIONAL PREREQUISITES AT TIME OF APPLICATION: "C" or higher in last semester of English, 1 credit of Algebra or concurrent enrollment projected. CERTIFICATIONS OFFERED: Basic Firefighter certification, National First Responder*

FLOOR LAYERS MIDDLE APPRENTICESHIP Grade: 12 Only

Floor Layers Middle Apprenticeship allows students to begin their post-secondary training while in high school in this exclusive apprenticeship. While learning to install hardwood, vinyl, carpet, and ceramic flooring students earn credit that can also lead to an associate's degree shortly after high school graduation. Paid summer internships with licensed contractors are also available. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One. PRE-REQUISITES AT TIME OF SENIOR YEAR ENROLLMENT: Minimum of 11 core credits (2.5 must be English), on track to graduate. APPRENTICESHIP CREDIT OFFERED: U.S. Department of Labor Journey Level Certificate – this certificate can be articulated into college credit with Ivy Tech Community College of Indiana and completes all but 5 courses required to earn an Associate's degree in Applied Science. CERTIFICATIONS OFFERED: Home Builders Institute (HBI)– Pre-Apprenticeship Training Core Certification • Occupational Safety and Health Administration (OSHA) – 10 hour Construction Industry Certification*

GRAPHIC DESIGN

Graphic Design channels students' passion for art is channeled into advertising and marketing projects using the full Adobe Suite of design software. Through advanced tutorials combined with a study of fonts, color theory, sketching and drawing, students will produce a professional portfolio of their work to share with prospective colleges and employers upon graduation. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One,*

SOUTH TECH

3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: St. Louis Community College, 3 credits. CERTIFICATIONS OFFERED: Adobe certifications

HEALTH SCIENCES

Health Sciences immerses students into healthcare through lab and patient care experiences, college-level academic coursework in anatomy and physiology, and clinical rotations at area hospitals and assisted living facilities. **Students MUST begin this program at the start of their junior year - no mid-year or senior enrollment is available. *HIGH SCHOOL CREDIT OFFERED: 2 CTE & 1 Science in Year One, 3 CTE in Year Two. PREREQUISITES AT TIME OF SENIOR ENROLLMENT: Minimum of 7 core credits (1.5 must be English, 1 must be science), on track to graduate, must be 16 years old on the first day of class. ADDITIONAL PREREQUISITES AT TIME OF APPLICATION: "C" or higher in all completed science coursework, 1 credit of Biology or concurrent enrollment projected, 2.0 minimum GPA. ARTICULATING INSTITUTIONS & CREDIT OFFERED: St. Louis Community College, 4 credits • Missouri Baptist University, Dual Credit, 8 credits. CERTIFICATIONS OFFERED: Certified Nursing Assistant (CNA) – State of Missouri certification • Occupational Safety and Health Administration (OSHA) –10 hour General Industry – Healthcare Certification • CPR and First Aid certifications*

HEATING, VENTILATION & AIR CONDITIONING Grade: 12 Only

Our **HVAC** major teaches students to design, install, repair, and maintain residential and commercial refrigeration, heating, and air conditioning systems. Blueprint reading, electrical schematics, and operational sequencing charts are taught in preparation for certification exams. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One. PRE-REQUISITES AT TIME OF SENIOR YEAR ENROLLMENT: Minimum of 11 core credits (2.5 must be English), on track to graduate. APPRENTICESHIP CREDIT OFFERED: Construction Craft Laborers - credit for 40 hours of apprentice training and 500 hours of on-the-job training. CERTIFICATIONS OFFERED: Home Builders Institute (HBI) – Pre-Apprenticeship Training Core Certification • Occupational Safety and Health Administration (OSHA) – 10 hour Construction Industry Certification • Environmental Protection Agency (EPA) – 608, Refrigeration Handling certification*

LAW ENFORCEMENT

Law Enforcement introduces students to the Police Academy through an array of training exercises, crime scenarios, self-defense, and fitness training. Students will learn conflict mediation and resolution, investigation techniques, and be trained in the use of advanced security related training equipment, including vehicles. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: University of Central Missouri, Dual Credit, 3 hours. CERTIFICATIONS: Missouri Law Enforcement Skills and Knowledge (MOLESK) Certification*

PHARMACY SCIENCES

Pharmacy Sciences - students use the same advanced equipment as industry professionals, students test and research drug treatments and interactions. Students learn the skills required for careers in retail, hospital, and medical center pharmacies. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 2 CTE and 1 Science*

SOUTH TECH

in Year Two. COLLEGE CREDIT OFFERED: Missouri Baptist University, Dual Credit, 4 to 8 credits.
CERTIFICATIONS: PassAssured • Missouri Pharmacy Technician License

PRECISION MACHINING

Precision Machining teaches students to invent, design, and manufacture tools and components for a wide range of production while learning how to use advanced computer controlled technology, 3D printing, and traditional machining skills. Project based learning includes training in MasterCAM and Computer Aided Design (CAD) software. *HIGH SCHOOL CREDIT OFFERED: 2 CTE & 1 Math in Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: St. Louis Community College, 5 credits. CERTIFICATIONS OFFERED: National Institute for Metalworking Skills (NIMS) – Measurement, Materials & Safety Certification, Job Planning, Benchwork & Layout Certification*

VETERINARY ASSISTANT

Veterinary Assistant explores the science of veterinary medicine, including animal care and training, clinical procedures, medical terminology, grooming, and disease prevention are key components of this course. Students interact daily with a wide variety of animals fostered in our facilities and provide their medical care while learning from certified professionals. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. ADDITIONAL PREREQUISITES AT TIME OF APPLICATION: 1 credit Biology or concurrent enrollment projected. COLLEGE CREDIT OFFERED: Jefferson College, 2 credits. CERTIFICATIONS OFFERED: Certified Vet Assistant – State of Missouri Vet Med Association*

WEB & COMPUTER PROGRAMMING

Web & Computer Programming teaches students how to write and edit source code and applets using several programming languages including HTML and Java. Students will design, create, and maintain software, databases, and web pages while earning certifications. *HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate. COLLEGE CREDIT OFFERED: St. Louis Community College, 5 credits. CERTIFICATIONS OFFERED: Microsoft Technology Associate (MTA) Certification – HTML5 or Software Development*

WELDING

Welding trains students to design, engineer, build, and troubleshoot complex metal fabrication challenges. Through high-level training and challenging competitions, students perfect modern welding processes while earning welding certifications.

HIGH SCHOOL CREDIT OFFERED: 3 CTE Year One, 3 CTE in Year Two. PRE-REQUISITES AT TIME OF JUNIOR YEAR ENROLLMENT: Minimum of 7 core credits (1.5 must be English), on track to graduate.

SOUTH TECH

APPRENTICESHIP CREDIT OFFERED: Construction Craft Laborers – Credit for 40 hours of Apprentice Training and 500 hours of On-The-Job Training. CERTIFICATIONS OFFERED: American Welding Society (AWS) – multiple entry-level welding certifications available, S/P2 Safety Certification