

# Jordan Applied Technology Center



## Course Catalog





Welcome to the Jordan Applied Technology Center! We are committed to serving students by providing opportunities for them to realize their potential as contributing citizens and life-long learners. To better prepare our students for future careers, Jordan School District has developed these programs in a state-of-the-art facility located on the Jordan Campus of Salt Lake Community College.

The Career and Technical Education Department in Jordan School District has a well-earned reputation for providing high-quality programs staffed by skilled educators, who are supported with excellent equipment and training. The Jordan Applied Technology Center and the accompanying programs will build on these strengths. Articulation and collaboration with Salt Lake Community College and other post-secondary institutions will be enhanced making the transition into further education seamless for the students.

Students who take advantage of this great opportunity will be prepared to further their education or to enter the workforce with the skills and experiences needed for success. These students increase their earning potential.

Thank you for taking time to learn more about the educational opportunities available to you at the Jordan Applied Technology Center.

A handwritten signature in cursive script that reads 'Jason Skidmore'.

Jason Skidmore, Principal  
Jordan Applied Technology Center



# General Information and Entrance Requirements



In order to be enrolled in a JATC program, you must be registered at a Jordan School District or Wasatch Front Consortium affiliated high school as per Jordan School District Policy AA447.

The JATC has two sessions per day.

**Morning Session: 7:40 A.M to 10:00 A.M.**

**Afternoon Session: 11:30 A.M. to 1:45 P.M.**

Busing is available to and from the JATC Campus for Jordan School District students.

JATC classes are held every day for 2 class periods, therefore, you will need to block out 4 periods of your 8 period schedule. Please make sure you have the time necessary to enroll in a JATC program by checking your graduation status with your high school counselor. *Concurrent enrollment is available for most programs but is subject to change based on college and department stipulations.*

## Application Process:

1. Only **juniors and seniors** may register for classes at the JATC.
2. Follow the application instructions posted on the JATC website at [www.jatc-wj.org](http://www.jatc-wj.org).
3. If you have reasonable accommodations that are included in a 504 plan or an IEP, please have your CTE Coordinator, High School Counselor, or your Special Programs Coordinator attach the information to your application. Your 504 or IEP will not be factored in to JATC admissions decisions. Rather, this is invaluable information for instructors to review before the school year begins in order to have accommodations in place that will meet your educational needs.
4. Each of the JATC programs ***requires entrance testing***. Please obtain the testing schedule from your CTE Coordinator. The testing schedule is also available online at <http://jatc-wj.org/prospective-students>. In the testing schedule, you will notice that there is more than one testing date for each program. You will be required to attend **one** of the testing sessions for that program. ***Important: Please plan to test in one of the early testing sessions. Every year, we have students that plan to go to the last testing session and they have an unavoidable conflict and are unable to attend. Please be aware that there are no make-up testing dates.***
5. The JATC staff will process your application, testing results, your transcript, and attendance and make a determination regarding acceptance. All students will be notified by mail regarding their status, in a timely manner, following the last date of testing.

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<b>Instructor:</b>	Gina Sanzenbacher, B.S., M.S.S.S.T.
<b>Program Description:</b>	This full-year, laboratory-focused program teaches basic lab techniques and their rationale. The biotechnology field applies the knowledge of biological organisms to problems that occur in the real world. The topics covered in this introductory biotechnology program include DNA isolation, DNA manipulation, protein isolation, protein manipulation, microbiology, genetics, forensics, bioinformatics, and many more. These topics are investigated in the laboratory using cutting edge equipment and in the computer lab using web tools and information.
<b>Program Objectives:</b>	Perform independent laboratory experiments, prepare solutions, prep samples, problem solve errors, analyze data, and communicate results.
<b>Program Expectations:</b>	Students will be required to perform their own experiments and be responsible for making up missed lab time after class. Students must maintain an accurate lab book for documentation and follow standard operating procedures for each piece of equipment/technique.
<b>High School Credit:</b>	Four (4) high school CTE or three high school CTE credits and one AAF (third year) Science credits
<b>Concurrent Credit:</b>	BTEC 1010 - Fundamentals of Biotechnology (3 credits) BTEC 1015 - Intro to Biotechnology Lab (1 credit)
<b>Educational Opportunities:</b>	The JATC Biotechnology program articulates into both the SLCC and the UVU biotechnology programs. Students will also be prepared with skills that would be beneficial in any two year or four year biological science program.
<b>Possible Careers:</b>	Students will be able to work as an entry level lab technician in various biotech companies including: ARUP, IHC, Tandem Labs, Zars, Echelon, etc. Some companies provide tuition reimbursement for students who pursue further education. The JATC Biotechnology program is a great stepping stone for students who are interested in medical school, research, forensics, pharmaceuticals, or other biological science-related fields.
<b>Misconceptions:</b>	Biotechnology is NOT a basic biology lab course. It is a college-level science class that teaches students complex molecular biological concepts.
<b>Classes Required for Entrance:</b>	Biology and Algebra I (Must have received at least a C in both classes)
<b>Recommended Classes:</b>	Honors Biology, AP Biology, Chemistry, Geometry, and Algebra II
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Juniors and Seniors based on entrance exams, strength of schedule, GPA, and attendance
<b>Costs/Fees:</b>	SLCC Concurrent Enrollment fee: \$40 (optional) Optional Fee: Lab Coat: \$25 Optional Fee: TSA membership (nominal CTSO membership fees vary)

# Advanced Biotechnology



<b>Instructors:</b>	Adam Blaszcak, Ph.D. Mary Nelson, Ph.D. Gina Sanzenbacher, B.S., M.S.S.S.T.
<b>Program Description:</b>	The full-year JATC Biotechnology program must be completed before enrolling in the JATC Advanced Biotechnology program. Students at this level will receive credible research experience including but not limited to the following areas: microbiology, genetics, forensics, and bioinformatics. These topics are investigated in the laboratory using cutting edge equipment and in the computer lab using web tools and information. JATC works with InnovaBio as an innovative partnership of corporations and educators working to support Utah's biotechnology industry. The overall goal of the contract research organization, InnovaBio, was to create flexible industry-based research internship opportunities that were available to high school and college students. InnovaBio contracts projects, both research and development and services, from local life science companies and interns work as teams to conduct the work. The work is conducted on-site at the Salt Lake Community College (SLCC) Biotechnology labs and supervised by the InnovaBio scientific staff.
<b>Program Objectives:</b>	Perform independent laboratory experiments, prepare solutions, prep samples, problem solve errors, analyze data, and communicate results.
<b>Program Expectations:</b>	<p>Students will be required to perform their own experiments and be responsible for making up missed lab time after class. Students must maintain an accurate lab book for documentation and follow standard operating procedures for each piece of equipment/technique. Students will have an enhanced education through legitimate corporate internships using peer-based learning.</p> <p>This course will provide the following: a challenging and exciting training environment for high school and college interns, optimal access to all interns to increase success in their career path, quality research services to contract company partners in a directed and timely fashion.</p>
<b>High School Credit:</b>	Two (2) high school CTE credits
<b>Concurrent Credit:</b>	BTEC 1080 - Biotechnology Experience (3 credits)
<b>Educational Opportunities:</b>	The JATC biotechnology program articulates into both the SLCC and the UVU biotechnology programs. Students will also be prepared with skills that would be beneficial in any two year or four year biological science program.
<b>Possible Careers:</b>	Students will be able to work as an entry level lab technician in various biotech companies including: ARUP, IHC, Tandem Labs, Zars, Echelon, etc. Some companies provide tuition reimbursement for students who pursue further education. The JATC Biotechnology program is a great stepping stone for students who are interested in medical school, research, forensics, pharmaceuticals, or other biological science-related fields.
<b>Misconceptions:</b>	Biotechnology is NOT a basic biology lab course. It is a college-level science class that teaches students complex molecular biological concepts.
<b>Classes Required for Entrance:</b>	BTEC 1010- Fundamentals of Biotechnology (3 credits) – Must pass with at least a C. BTEC 1015 - Intro to Biotechnology Lab (1 credit) – Must pass with at least a C.
<b>Recommended Classes:</b>	Honors Biology, AP Biology, Chemistry, Geometry, and Algebra II
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Seniors based on entrance exams, strength of schedule, GPA, attendance, and performance in Biotechnology.
<b>Costs/Fees:</b>	Optional Fee: Lab Coat: \$25 Optional Fee: TSA membership (nominal CTSO membership fees vary)

# Commercial Aircraft Pilot



<b>Instructors:</b>	Jack Butterfield, CFII Rodney Sims, CFII
<b>Program Description:</b>	This program of study includes an introduction to the field of aviation, aviation history, aviation transportation, aircraft systems and safety. During the Private Pilot Ground School portion of the program, students will study principles of flight, rules/regulations, aircraft/engine operations, airplane control, navigation, and radio communications as required by FFA regulations. To prepare for flight, students will learn to operate flight simulators and have the opportunity to fly in the solo lab.
<b>Program Objectives:</b>	The focus of this program is to help students gain the knowledge and skills necessary to pass the FAA written exam and be prepared for flight.
<b>Program Expectations:</b>	Classroom academics require English literacy in reading and speaking. Students must pass regular exams along with FFA stage exams. A physical exam must be completed prior to the first flight lesson. A minimum of a Class II physical exam is required. Physical condition must be certified by an FAA medical examiner.
<b>High School Credit:</b>	Four (4) high school CTE credits
<b>Concurrent Credit:</b>	PLT 1050 - Aviation History (2 credits) PLT 1010 - Air Transportation (3 credits) PLT 1420 – Aircraft Systems (3 credits) PLT 1100 - Private Pilot Ground School (5 credits)
<b>Educational Opportunities:</b>	This program gives high school students a head start in earning an Associate of Science (AS) in Flight Technology from Salt Lake Community College. Only private and instrument licenses are required for an AS degree. Students will also attain the skills and knowledge necessary to continue their training in Commercial Aviation at other post-secondary institutions.
<b>Possible Careers:</b>	Career opportunities include certified flight instructor, scenic tour pilot, cargo transport, test pilot, commuter/regional airline pilot, private c/corporate flight pilot, major airline pilot, and the U.S. military. Pilots progress from entry level positions to more advanced positions based on training, skills, and hours of flight. It typically takes about 5-7 years of flight experience and a Bachelor’s Degree to qualify for a position with a major airline.
<b>Misconceptions:</b>	This is not an easy program. Students need to know that all courses are concurrent enrollment classes.
<b>Classes Required for Entrance:</b>	None
<b>Recommended Classes:</b>	Algebra I, Physics, and Computer Technology
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Junior and Seniors based on entrance exams, GPA, and attendance
<b>Costs/Fees:</b>	SLCC Concurrent Enrollment fee: \$40 (optional) Optional Fee: Skills USA Membership (nominal CTSO membership fees vary)

# Dental Assistant



<b>Instructors:</b>	Sue Taylor Angie Thompson
<b>Program Description:</b>	This program is designed for juniors and seniors with an interest in dental healthcare. The program offers students the opportunity to explore the dental health profession by providing hands-on experience and classroom instruction. Students will learn skills in chairside assisting, infection control, front office procedures, instrument identification, radiology safety, and laboratory procedures. In addition, students will be enrolled in the Advanced Health Science course which covers basic anatomy/physiology, healthy behaviors, healthcare delivery, ethics/communication in healthcare settings, and employability. Students will become CPR certified. Students will also have the opportunity to receive a nationally recognized certificate issued by the National Consortium for Health Science Education (NHSCE).
<b>Program Objectives:</b>	Students will acquire basic dental assisting skills such as: chairside greeting and seating, suctioning, fluoride treatment, coronal polishing, sterilization techniques, dental charting, and terminology.
<b>Program Expectations:</b>	Students practice skills on each other. Students must have the Hepatitis B vaccination series and a TB test. A 90 hour clinical experience in a working dental office must be completed with a satisfactory evaluation from the dentist and their staff. The student is responsible for finding a dental office to complete a 90 hour clinical experience. Students must receive a classroom grade of 75% in order to receive credit for participation in the clinical experience.
<b>High School Credit:</b>	Four (4) high school CTE credits
<b>Concurrent Credit:</b>	HTHS 1101 - Medical Terminology (2 credits) - Weber
<b>Educational Opportunities:</b>	Students seeking further education in dental healthcare may continue their education at community colleges, universities or private dental hygiene schools.
<b>Possible Careers:</b>	Students will be able to work as a dental assistant after completing this course. Students may continue their education to become a dental hygienist, dentist, dental laboratory technician, or other dental healthcare specialist.
<b>Misconceptions:</b>	Students receive a Dental Assistant Skill Certificate from the Utah State Office of Education for this course if they pass the state skills certification test with at least 80%. This is not the same as the Certified Dental Assistant (CDA) given by some other agencies. A CDA is not required for employment in the state of Utah.
<b>Classes Required for Entrance:</b>	None
<b>Recommended Classes:</b>	Medical Anatomy and Physiology
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Junior and Seniors based on entrance exams, GPA, attendance, and strength of schedule. Seniors will be given priority.
<b>Costs/Fees:</b>	Weber State Concurrent Enrollment fee: \$30 (optional) Textbooks: Concurrent Enrollment textbook purchase required. Optional Fee: HOSA membership (nominal CTSO membership fees vary) Students must purchase their own scrubs. Immunizations

# Engineering 1



<b>Instructors:</b>	Michael Smoot Kirk Terry
<b>Program Description:</b>	The Engineering 1 program consists of two courses: Principles of Engineering and Introduction to Engineering Design. The Principles of Engineering course helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The Introduction to Engineering Design course teaches problem-solving skills using a design development process. Models of product solutions are created analyzed and communicated using solid modeling computer design software.
<b>Program Objectives:</b>	Students will develop a solid foundation of pre-engineering, research, and design skills as well as learn concepts from the “Project Lead the Way” program. Students will build leadership skills through participation in the Technology Student Association (TSA) which is an integral part of this program.
<b>Program Expectations:</b>	Students will be involved in hands-on projects. Activities will be team oriented. Attention to detail will be emphasized. A candidate student must be on-track as a high school junior and senior in all core courses required for high school graduation.
<b>High School Credit:</b>	Four (4) high school CTE or 3 high school CTE and 1 AAF (third year) Science credits
<b>Concurrent Credit:</b>	EDDT 2710 - Autodesk 3 D modeling (2 credits)
<b>Educational Opportunities:</b>	Students who complete this program are ready to continue into a 2-year community college AS program, or may move directly into a university BS engineering program.
<b>Possible Careers:</b>	Upon completion of their university degree, a student would be able to work as an engineer in the mechanical, electrical, software, chemical, materials, or civil engineering fields.
<b>Misconceptions:</b>	Engineering is often thought of as representing difficult math applications and complicated engineering design scenarios. The hands-on approach taken at the Jordan Applied Technology Center simplifies learning basic engineering principles.
<b>Classes Required for Entrance:</b>	Geometry and Algebra II
<b>Recommended Classes:</b>	Computer Technology, Programming, Technical Writing, and Physics
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Juniors and Seniors based on entrance exams, GPA, and attendance
<b>Costs/Fees:</b>	SLCC Concurrent Enrollment fee: \$40 (optional) Optional Fee: TSA membership (nominal CTSO membership fees vary) Optional Fee: Engineering Department shirt

# Engineering 2



<b>Instructors:</b>	Michael Smoot Kirk Terry
<b>Program Description:</b>	This second-year program consists of two courses: Computer Integrated Manufacturing and Introduction to Engineering Design & Development. The Computer Integrated Manufacturing course applies principles of robotics and automation. This course builds on computer solid modeling skills developed in the Introduction to Engineering Design course. Students use CNC equipment to produce actual models of their three-dimensional designs. Engineering Design and Development is a course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students submit a final report and defend their solutions to a panel of reviewers at the end of the school year. Participation in the Technology Student Association (TSA) is an integral part of this course.
<b>Program Objectives:</b>	Students will develop a solid foundation of pre-engineering, research, and design skills as well as learn concepts from the “Project Lead the Way” program. They will be better prepared to enter an engineering or engineering technology program at the post-secondary level. Students will build leadership skills through participation in the Technology Student Association (TSA) which is an integral part of this program.
<b>Program Expectations:</b>	Students will be involved in hands-on projects. Activities will be team oriented. Attention to detail will be emphasized.
<b>High School Credit:</b>	Four (4) high school CTE or 3 high school CTE and 1 AAF (third year) Science credits
<b>Concurrent Credit:</b>	None available at this time
<b>Educational Opportunities:</b>	Students who complete this program are ready to continue into a 2 year community college AS program, or may move directly into a university BS engineering program.
<b>Possible Careers:</b>	Upon completion of their university degree, a student would be able to work as an engineer in the mechanical, electrical, software, chemical, materials, or civil engineering fields.
<b>Misconceptions:</b>	Engineering is often thought of as representing difficult math applications and complicated engineering design scenarios. The hands-on approach taken at the Jordan Applied Technology Center simplifies learning basic engineering principles.
<b>Classes Required for Entrance:</b>	Engineering 1, Geometry, and Algebra II
<b>Recommended Classes:</b>	Computer Technology, Programming, Technical Writing, and Physics
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Seniors based upon performance and grade in Engineering 1
<b>Costs/Fees:</b>	Optional Fee: TSA membership (nominal CTSO membership fees vary) Optional Fee: Engineering Department shirt

# Medical Assistant



<b>Instructor:</b>	Margie Ihler, R.N.
<b>Program Description:</b>	This program prepares students to work as medical assistants in a physician's office. Students gain clinical skills that allow them to provide patient care such as taking vital signs, drawing blood, giving shots, performing simple lab tests and documenting information in each patient's medical records. Students also study front office skills such as setting up patient records, billing medical insurances, scheduling patient visits and managing the office setting.
<b>Program Objectives:</b>	Student's will learn the skills necessary to become a medical assistant. Student's will be prepared to work as an intern in a medical office and will attain the skills necessary to earn the Medical Assistant Certificate.
<b>Program Expectations:</b>	Each student will be required to participate as the medical assistant and as a patient in venipuncture, injections, finger sticks and urinalysis. Students will learn and follow safety precautions when working with patient body fluids. All students will be required to pass a random drug test in order to remain in the program. Students must pass four tests at the end of this course with 80% or better; Medical Terminology, Anatomy & Physiology, Administration Office Management, and Clinical Laboratory. Each student must complete a 160 hour externship, working for a physician. This allows them to earn the "Utah Endorsed Medical Assistant" certificate. Students must provide their own transportation to and from the office.
<b>High School Credit:</b>	Four (4) high school CTE credits
<b>Concurrent Credit:</b>	HTHS 1101 - Medical Terminology (2 credits) - Weber Highly motivated students may earn HLTH 1020 - Foundations of Nutrition (3 credits)
<b>Educational Opportunities:</b>	This program provides an excellent introduction to a career in the medical field. Many students who are interested in the nursing profession find this course to be a helpful starting point.
<b>Possible Careers:</b>	Traditionally, a medical assistant is employed in a physician's office, but other opportunities include hospital emergency departments and outpatient surgical centers.
<b>Misconceptions:</b>	Some students have heard that Medical Assisting is an easy class. Students work very hard but have a lot of fun!
<b>Classes Required for Entrance:</b>	Human Biology or Medical Anatomy & Physiology
<b>Recommended Classes:</b>	Health Science
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Seniors based upon entrance testing, GPA, and attendance
<b>Immunizations Required:</b>	2 MMR, T-dap Booster, Hepatitis B Immunizations and 2 current TB tests 2 Chickenpox immunizations or a note verifying you have had chicken pox
<b>Costs/Fees:</b>	SLCC Concurrent Enrollment fee: \$40 (optional) Weber State Concurrent Enrollment fee: \$30 (optional) Textbooks: Concurrent Enrollment textbook purchase required. Optional Fee: HOSA membership (nominal CTSO membership fees vary) Students must provide a blood pressure cuff and stethoscope, scrubs, close toed shoes, and socks.

# Nurse Assistant (CNA)



<b>Instructor:</b>	Julie Huffman, R.N.
<b>Program Description:</b>	This semester-long program is available to juniors and seniors. It will provide an introduction to the health care field and the role of a nursing assistant. Students will learn the skills needed to work as a nursing assistant and will prepare to become certified through the Utah Nursing Assistant Registry.
<b>Program Objectives:</b>	Students will become certified as nursing assistants upon successful completion of the state exam, which is offered at the end of the program. They will also become certified in CPR and First Aid.
<b>Program Expectations:</b>	Students are expected to have excellent attendance. They will complete a clinical externship in a nursing home that will require a commitment of 6 hours a week, either after school or on Saturdays. Students are responsible for providing their own transportation to their externship site. Textbooks are college level reading. All students will be required to pass a random drug test in order to remain in the program.
<b>High School Credit:</b>	Two (2) high school CTE credits
<b>Concurrent Credit:</b>	MA 1100 - Medical Terminology (2 credits) HLTH 1200 – First Aid & Safety (3 credits)
<b>Educational Opportunities:</b>	This class is an excellent introduction to any career in the health care field. A CNA certificate is also a required prerequisite for most nursing programs in the state of Utah.
<b>Possible Careers:</b>	Students will be able to work as a certified nursing assistant (CNA) in a hospital, nursing home, assisted living facility, or patient's home. Students may also continue their education to become a registered nurse (RN).
<b>Misconceptions:</b>	This program focuses on the physical care of patients who are unable to take care of themselves. It is challenging emotionally and physically. Students will not learn how to give injections or draw blood.
<b>Classes Required for Entrance:</b>	None
<b>Recommended Classes:</b>	Human Biology, Anatomy and Physiology, and Health Occupations
<b>Program Length:</b>	Semester
<b>Eligibility:</b>	Junior and Seniors (at least 16 years old) based upon entrance testing, GPA, and attendance
<b>Costs/Fees:</b>	SLCC Concurrent Enrollment fee: \$40 (optional) Textbooks: Concurrent Enrollment textbook purchase required Blood pressure kit: \$25 State Certification test: \$70 Optional Fee: HOSA membership (nominal CTSO membership fees vary) Scrubs required Immunizations required

# Pharmacy Technician



<b>Instructor:</b>	Kathy Richins, CPhT
<b>Program Description:</b>	This program prepares senior students to work in a pharmacy under the direction of a pharmacist. Students are trained to provide counter assistance, to keep patient and related health record information, and to bill insurance companies. Students learn how to fill prescriptions. This includes creating the label for the bottle, filling the prescription, making capsules using nonsterile compounding procedures, and making IV's using aseptic techniques. Students also learn how to perform a wide range of other practice-related duties for both retail and hospital-based pharmacies. At the conclusion of the course, students are qualified to take the national pharmacy technician exam through the Pharmacy Technician Certification Board (PTCB).
<b>Program Objectives:</b>	Students will learn the skills necessary to participate in clinical experiences in pharmacies, receive job placement assistance, and prepare to obtain a national certificate and state license upon completion of course. This course will prepare students for youth leadership opportunities.
<b>Program Expectations:</b>	Students must have good social skills, attendance, and citizenship. Excellent reading and memorization skill are required to be successful because students must learn the names and functions of drugs, dosages, abbreviations, etc. Students will be required to secure their externship site and to provide their own transportation to their pharmacy. Three hundred-fifty (350) classroom hours and 180 hours in a pharmacy are required. All students will be required to pass a random drug test in order to remain in the program.
<b>High School Credit:</b>	Four (4) high school CTE credits
<b>Concurrent Credit:</b>	HTHS 1101 - Medical Terminology (2 credits) - Weber
<b>Educational Opportunities:</b>	The Pharmacy Technician Program is a Certificate Program. Upon completion of the program they receive a certificate indicating that they have met all the requirements to apply for licensure through the Department of Occupational and Professional Licensing (DOPL). Students may now take the Pharmacy Technician Certification Board Exam (PTCB). Once a student has passed the PTCB exam they may work as a Certified Pharmacy Tech. Pharmacists value a good pharmacy technician. Becoming a Pharmacy Technician is also helpful to students who want to pursue a career as a Pharmacist.
<b>Possible Careers:</b>	Careers for which the study of pharmacy could be helpful are Pharmacy Technician, Pharmacist, Physician, Anesthesiologist, Nursing, EMT and many other medical professions.
<b>Misconceptions:</b>	Students do not need to be 18 years old to sit for the PTCB or to become licensed as a Pharmacy Technician. They do need to be a high school graduate or have their GED.
<b>Classes Required for Entrance:</b>	Algebra I and Word Processing
<b>Recommended Classes:</b>	Algebra II, Biology, Chemistry, Health Occupations, and Anatomy & Physiology are helpful.
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Senior Students
<b>Costs/Fees:</b>	Weber State Concurrent Enrollment fee: \$30 (optional) Textbooks: Concurrent Enrollment textbook purchase required Optional Fee: HOSA membership (nominal CTSO membership fees vary)

# Physical Therapy/Occupational Therapy



<b>Instructors:</b>	Christopher W. Harper, PT, DPT, OCS Michael A. King, DPT Deanna A. Clark, OTR, CHT, CLT Eunice Chen, OTR
<b>Program Description:</b>	This program is for juniors and seniors interested in the rehabilitation career fields of physical therapy and occupational therapy. This course offers students the opportunity to explore different avenues of these rehabilitation professions. This course consists of learning skills required to function as a therapy or rehabilitation technician including thermomodalities, electromodalities, communication skills, patient transfers, patient ambulation, patient range of motion, clinic policies and procedures, and professionalism.
<b>Program Objectives:</b>	Students will learn to aide physical therapists, occupational therapists, physical therapist assistants, and occupational therapy assistants in managing patient care in a rehabilitation setting such as outpatient, hospital, and skilled nursing facilities. Students will demonstrate abilities in patient range of motion and other therapeutic exercise, transferring patients, application of electromodalities, interpersonal and professional communication skills, basic and functional human anatomy.
<b>Program Expectations:</b>	College level academics and participation. Students will be responsible for transportation to and from clinic observations on Mondays and Fridays. All students will be required to pass random drug testing in order to remain in the program.
<b>High School Credit:</b>	Four (4) high school CTE credits
<b>Concurrent Credit:</b>	HTHS 1101 - Medical Terminology (2 credits) - Weber OTA 1020 - Intro to Occupational Therapy (2 credits)
<b>Educational Opportunities:</b>	Students have the opportunity to further their education at community colleges for an Associate's Degree in Physical Therapy Assisting or Occupational Therapy Assisting. Students can also go on to a Bachelor's Degree in a related field then obtain a Doctor of Physical Therapy Degree or a Master's Degree in Occupational Therapy.
<b>Possible Careers:</b>	Upon completion of this program, students will be able to gain employment as a Rehabilitation Technician in a variety of settings such as hospitals, outpatient clinics, and skilled nursing facilities. Employment in the rehabilitation field may serve the student well for application into a college program for either physical or occupational therapy.
<b>Misconceptions:</b>	This program is designed to reflect the true career field of the rehabilitation professions as a potential future career. Currently no certification is required to work as a rehabilitation technician in the state of Utah, however, education and experience in the field is usually beneficial for employment. This is not a sports medicine or athletic training course.
<b>Classes Required for Entrance:</b>	None
<b>Recommended Classes:</b>	Anatomy, Physiology, and Geometry
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Junior and Seniors based on entrance exams, GPA, attendance and strength of schedule.
<b>Costs/Fees:</b>	SLCC Concurrent Enrollment fee: \$40 (optional) Weber State Concurrent Enrollment fee: \$30 (optional) Textbooks: Concurrent Enrollment textbook purchase required Optional Fee: HOSA membership (nominal CTSO membership fees vary) Scrubs required (navy blue)

# Surgical Technician



<b>Instructors:</b>	Greg Maughan, CST Jana Mitchell, BS, CST
<b>Program Description:</b>	The Surgical Technician program is a laboratory - based course designed to prepare students for entry level positions as surgical technicians. Students will learn to perform vital functions in an operating room during surgical procedures. They will facilitate the work of the surgeon in a sterile field. Students will set up and pass surgical instruments and supplies, and perform other tasks as directed by the surgical team.
<b>Program Objectives:</b>	<p>The Surgical Technician program at Jordan Applied Technology Center is a one-year program that prepares senior level high school students to become Certified Surgical Technologists. This enables them to work in the operating room facilitating the work of surgeons in the sterile field. The goal of this program is to prepare competent entry-level surgical technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.</p> <p>Upon completion of this program, students will be eligible to take the national certification exam and work as a surgical technologist in a variety of surgical settings across the nation.</p>
<b>Program Expectations:</b>	<p>Applicants should have excellent organization and prioritization skills with the ability to think and act quickly. Students should also have good eye-hand coordination, the ability to see and manipulate very small objects, and an ability to understand and speak English. The student should also be able to stand for very long periods of time and lift 30 pounds. Students should also be prepared to face significantly stressful and emotionally challenging situations. All courses required for this program must be completed earning a grade of C+ or better in order to move on to the next phase of the program.</p> <p>Students will learn techniques, as well as, patient care through laboratory practice, classroom instruction and supervised externships in area clinical settings. Students must provide their own transportation. The externship site may require random drug testing.</p>
<b>High School Credit:</b>	Four (4) high school CTE or 3 high school CTE and 1 Core or AAF (third year) Science credits
<b>Concurrent Credit:</b>	MA 1100 - Medical Terminology (Summer - 2 Credits) BIOL 1610 - College Biology I (Summer - 4 Credits) BIOL 1615 - College Biology I Lab (Summer - 0 Credits) COMM 1010 - Elements of Effective Communication (Summer - 3 Credits) BIOL 2320 - Human Anatomy (Fall - 4 Credits) BIOL 2325 - Human Anatomy Lab (Fall - 0 Credits) SURG 1200 - Intro to Surgical Technology (Fall - 6 Credits) SURG 1250 - Advanced Surgical Theory (Spring - 6 Credits) <i>(After graduation from high school, students will still have 12 credits they need to complete, and they will need to pay regular college tuition for these remaining credits.)</i>
<b>Educational Opportunities:</b>	Students have the opportunity to further their education at community colleges and/or universities upon completion of this program.
<b>Possible Careers:</b>	Hospital Operating Room, OB Department, Outpatient Surgical Centers, Specialization, Private Scrub, Traveling Tech, Veterinary Tech, Product Rep, Research and Product Development, Materials Management/Central Processing, Supervisory, Instructor, Military, Volunteer, Technical Writing, Illustration and Photography, and Consultation

# Surgical Technician



<b>Misconceptions:</b>	Some students think that this is only a one year program when in reality the total length is 19 months. The Surgical Technician program begins in June following the student's junior year of high school and ends after Fall Semester of the student's freshman year at SLCC. Some students think this is not a difficult program. The program is very difficult and requires sacrifice and determination.
<b>Classes Required for Entrance:</b>	Biology
<b>Recommended Classes:</b>	Biology, Medical Terminology, Anatomy/Physiology, and Algebra 2
<b>Program Length:</b>	Full secondary school year plus 3 semesters at Salt Lake Community College. The program starts in June at end of the student's junior year of high school and continues through the end of fall semester of the student's freshman year of college. The total program length is 19 months.
<b>Eligibility:</b>	Seniors based on entrance exams, GPA, strength of schedule, interview, and attendance
<b>Costs/Fees:</b>	<p>The following list of fees contains both required and optional costs that may be variable:</p> <p>SLCC Concurrent Enrollment fee: \$40 Set of scrub clothing: \$ 22 Protective eyewear: \$ 10 SLCC picture ID card: \$ 10 Immunizations (variable) Physical exam (variable) Tuberculosis skin test (variable) Criminal background test: approx \$30 Text books for all courses: approx \$650 Parking Pass for SLCC campus: \$30 (optional) HOSA membership (nominal CTSO membership fees vary--optional) HOSA sweatshirt: \$30 (optional) Students are encouraged to join the Association of Surgical Technologists: \$45 (January). Certification Exam: \$197 (Membership allows a significant discount on the certification exam). <i>(After graduation from high school, students will still have 12 credits they need to complete, and they will need to pay regular college tuition for these remaining credits.)</i></p> <p>*Estimated Total Cost: JATC &amp; Concurrent Enrollment Costs (Approximately \$1134) SLCC Tuition for the Remaining 12 Credits (Approximately \$1470)</p> <p>*Visit <a href="http://www.jatc-wj.org">www.jatc-wj.org</a> for the most current information.</p>

# Teacher Education



<b>Instructors:</b>	Brenda Straley, MS Kaylene T. White, MS
<b>Program Description:</b>	This program is designed to introduce students to the field of education including special education, paraeducation, or other careers in disability services. This program offers a starting point for an education pathway at most Utah colleges and universities. Students will gain hands on experience working with children with disabilities. Students learn instruction, data collection and assessment that can be used in public school classrooms, community settings, and adult education settings.
<b>Program Objectives:</b>	This introductory program is designed to help students decide if they would like to pursue a career in education, special education, paraeducation, or other careers in disability services. Students will be introduced to human growth and development as related to education. Students will gain insight into teaching as a profession, including the history/ organization of American schools, school law, curriculum, effective instruction, and helping diverse learners succeed in the classroom. Students will gain hands-on skills by participation in practicum experiences in public school classrooms. Successful completion of these courses will help prepare students for entry level education programs at the community college or university level. Students will have opportunities to facilitate future employment by developing relationships with students, teachers, parents, and school administrators.
<b>Program Expectations:</b>	Students who enroll in this program are expected to have excellent attendance, be dependable and reliable in both the JATC classroom and practicum settings. These courses involve a significant hands-on practice and student observation. Students will be assigned to practicum experiences that will provide experience in a wide variety of educational settings. Students will also travel to various schools within Jordan School district to observe classrooms and related services. Students must provide their own transportation to and from these activities. Students learn skills and ethics in the workplace that are applicable in a variety of careers and personal settings.
<b>High School Credit:</b>	Four (4) high school elective credits (FHS 1500 may count as a CTE credit)
<b>Concurrent Credit:</b>	FHS 1500: Human Development Across the Lifespan (3 credits) EDU 1010: Orientation to Education (3 credits) PED 1010: Introduction to Paraeducation (3 credits) PED 2150: Introductory Experience with At-Risk Students (3 credits) PED 2160: Introductory Experience Practicum (1 credit)
<b>Educational Opportunities:</b>	Students have the opportunity to further their education at a community college and/or university upon successful completion of this program. Successful completion of this program helps prepare students to enter an entry level job working as a paraeducator, under the direction of certified classroom educator. Students that have the desire to continue in the field of education/special education will need to complete a college degree.
<b>Possible Careers:</b>	Teacher (Elementary, Secondary, Post- Secondary), Special Education Teacher, Paraeducator, School Administrator, Specialized Services (Speech and Language, Hearing Impaired, Visually Impaired, Adaptive Physical Education etc.), Assistive/Adaptive Technology, University/College Disability Resource Center, Disability Advocate, Adult Services for People with Disabilities
<b>Misconceptions:</b>	Students need to know that all courses within this program are college level.
<b>Classes Required for Entrance:</b>	None
<b>Recommended Classes:</b>	Adult Roles, Child Development, and Early Childhood Education
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Junior and Seniors based on entrance exams, GPA, attendance and strength of schedule.
<b>Costs/Fees:</b>	SLCC Concurrent Enrollment fee: \$40 (optional) Textbooks: Concurrent Enrollment textbook purchase required Optional Fee: FCCLA and Future Educators Association (nominal CTSO membership fees vary)

# Veterinary Science Assistant



<b>Instructor:</b>	Kathy Nuttall, BS, CVT
<b>Program Description:</b>	This program is designed for juniors and seniors with an interest in animal care and nursing. The program offers students the opportunity to explore different avenues of the veterinary profession. This course is offered as a one year veterinary assisting or a two year veterinary technician program. The first year is an introduction to veterinary medicine. This includes: surgical assisting, anatomy/physiology, dentistry, bandaging, and laboratory procedures.
<b>Program Objectives:</b>	Students will perform clinical laboratory procedures, administering of medications, surgical assisting, monitoring anesthesia, caring for hospitalized patients, taking radiographs, and provide client education.
<b>Program Expectations:</b>	Students will be working with large animals, exotic animals, and small animals. Students will be expected to take care of school animals on weekends and holidays on a rotating schedule. Externships at local veterinary hospitals are a part of the program. Students will be responsible for transportation to these clinics and off-site labs during the year.
<b>High School Credit:</b>	Four (4) high school CTE or 3 high school CTE and 1 AAF (third year) Science credits
<b>Concurrent Credit:</b>	None available at this time
<b>Educational Opportunities:</b>	Students have the opportunity to further their education at community colleges and/or universities upon completion of this program. Students that have the desire to continue in the field of science or veterinary medicine will need to complete a college degree.
<b>Possible Careers:</b>	Upon completion of this program, students will be able to work as a technician in veterinary hospitals, shelters, military, industry, biomedical research, diagnostic laboratories, veterinary supply sales, and zoo/wildlife facilities.
<b>Misconceptions:</b>	This program is a college oriented program that teaches students the skills needed to perform critical care nursing skills. This is not a basic animal husbandry or grooming program.
<b>Classes required for entrance:</b>	Biology and Algebra I
<b>Recommended Classes:</b>	Biology Agriculture Science and Technology, Medical Terminology, and Anatomy and Physiology
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Junior and Seniors based on entrance exams, GPA, attendance and strength of schedule.
<b>Costs/Fees:</b>	Textbooks: Textbook purchase required Optional Fee: HOSA & FFA membership (nominal CTSO membership fees vary) Stethoscope/Scrubs required

# Veterinary Science Technician



<b>Instructor:</b>	Kathy Nuttall, BS, CVT
<b>Program Description:</b>	The JATC Veterinary Science Assistant program must be completed before enrolling in the Veterinary Science Technician program. The focus of this second-year program will be critical care nursing, fluid therapy, anesthesiology, radiology, and pharmacology. In addition, students will further explore the different avenues of the veterinary profession.
<b>Program Objectives:</b>	Students will perform clinical laboratory procedures, administering of medications, surgical assisting, administering and monitoring anesthesia, caring for hospitalized patients, taking radiographs, and providing client education.
<b>Program Expectations:</b>	Students will be working with large animals, exotic animals, and small animals. Students will be expected to take care of school animals on weekends and holidays on a rotating schedule. Externships at local veterinary hospitals are a part of the program. Students will be responsible for transportation to these clinics and off-site labs during the year.
<b>High School Credit:</b>	Four (4) high school CTE or 3 high school CTE and 1 AAF (third year) Science credits
<b>Concurrent Credit:</b>	None available at this time
<b>Educational Opportunities:</b>	Students have the opportunity to further their education at community colleges and/or universities upon completion of this program. Students that have the desire to continue in the field of science or veterinary medicine will need to complete a college degree.
<b>Possible Careers:</b>	Upon completion of this course, students will be able to work as a technician in veterinary hospitals, shelters, military, industry, biomedical research, diagnostic laboratories, veterinary supply sales, and zoo/wildlife facilities.
<b>Misconceptions:</b>	This is a college oriented program that teaches students the skills needed to perform critical care nursing skills. This is not a basic animal husbandry or grooming program.
<b>Classes Required for Entrance:</b>	Biology and Algebra I
<b>Recommended Classes:</b>	Biology Agriculture Science and Technology, Medical Terminology, and Anatomy and Physiology
<b>Program Length:</b>	Full year
<b>Eligibility:</b>	Seniors based on entrance exams, strength of schedule, GPA, attendance, and performance in the Veterinary Science Assistant program.
<b>Costs/Fees:</b>	Textbooks: Textbook purchase required Optional Fee: HOSA & FFA membership (nominal CTSO membership fees vary) Stethoscope/Scrubs required

## Jordan Applied Technology Center – Required Entrance Tests

The testing schedule is posted online at [www.jatc-wj.org/prospective-students](http://www.jatc-wj.org/prospective-students)



JATC Program	Test Name					
	Math	GMRT 10/12 Reading	O'Net Ability Profiler-7	Dvorine Color Vision	Fact 10 - Patterns	Essay
Biotechnology	X	X	X	X		
Commercial Aircraft Pilot	X	X	X	X		X
Nurse Assistant (CAN)	X	X	X			
Dental Assistant	X	X	X			
Engineering	X	X	X			
Medical Assistant	X	X	X			
Pharmacy Technician	X	X	X	X		X
Physical Therapy/Occupational Therapy	X	X	X			
Surgical Technician	X	X	X	X	X	
Teacher Education/Paraeducation	X	X	X			X
Veterinary Science Assistant/Technician	X	X	X			

**Math:** Timed - 40 minutes. A multiple-choice test covering addition and subtraction; multiplication and division; fractions and decimals; percentages; square roots and powers; polynomials, and geometry. (30 questions)

**GMRT 10/12 Reading:** Timed – 35 minutes. A multiple-choice test of reading comprehension where students are asked to read a paragraph and then identify key information, make inferences, and show understanding of vocabulary in context. (48 questions)

**O'Net Ability Profiler-7:** Timed - Two 10 second practice trials and one 60 second test. This is a test of making three lines in boxes as quickly as possible.

**Dvorine Color Vision:** Untimed – Approximately 2 minutes. Examinees identify colored numbers embedded in colored backgrounds to assess color vision.

**Fact 10 – Patterns:** Timed – 28 minutes. This is a test that requires the examinee to recreate a given pattern by tracing it on a graph paper grid. Some items are traced as is and others are traced upside down.



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Jason Skidmore

**High School CTE Coordinators**

CTE Coordinators provide students and parents with information regarding JATC programs and the application process. Coordinators are available at every high school. Contact information is listed below.

<b>Bingham</b>	Wayne Dittmore	(801) 256-5125
<b>Copper Hills</b>	Nicole Blanco	(801) 256-5329
<b>Herriman</b>	Craig Cottle	(801) 567-8447
<b>Riverton</b>	Gayle Whitefield	(801) 256-5825
<b>Valley</b>	David Tangero	(801) 572-7035
<b>West Jordan</b>	Shawnee Mouna	(801) 256-5609

\*Students in other Wasatch Front Consortium School Districts should contact their high school's CTE Coordinator or Counselor

*Jordan School District does not discriminate on the basis of race, color, national origin, gender, or disability in its programs and activities.*

