



Davis Applied Technology College

A UCAT Campus
550 E 300 S, Kaysville 84037
Phone: 593-2500



Course Descriptions - Surgical Technology Catalog Year: 2012

BTEC 1110 Computer Literacy - 90 Hours

This course provides students with a fundamental understanding of computing including knowledge and use of computer hardware, software, and operating systems. The course will cover basic use and common features of applications (word processing, spreadsheet, and database) including internet use and e-mail. This course includes information regarding setting up an ergonomic environment, maintaining healthy work habits and health risks involving eye strain and repetitive stress injuries.

BTEC 1110_ Computer Literacy (Program Based) - 90 Hours

This course provides students with a fundamental understanding of computing including knowledge and use of computer hardware, software, and operating systems. The course will cover basic use and common features of applications (word processing, spreadsheet, and database) including internet use and e-mail. This course includes information regarding setting up an ergonomic environment, maintaining healthy work habits and health risks involving eye strain and repetitive stress injuries.

BTEC 1510 Business English - 90 Hours

This course will focus on business English essentials, including writing, sentence structure, grammar, punctuation, and proofreading.

FUND 0050 Keyboarding Skills - 90 Hours

This course covers an introduction to the QWERTY keyboard, correct finger placement, and keyboarding techniques. Students will learn to touch type as they complete drills and timed writings. Through practicepractice, students will increase their typing speed and accuracy on a computer keyboard.

FUND 0065 Computer Skills - 30 Hours

Students will learn beginner computer skills in a Windows XP environment. Topics include starting a computer, using a mouse, launching programs, creating, saving and printing documents, surfing the World Wide Web and sending email.

FUND 0070 Spelling Skills - 30 Hours

Students will improve their spelling skills by learning and using phonics and common spelling rules.

FUND 0075 Language Skills - 90 Hours

In this course students will practice and improve their language and writing skills and will gain an understanding of the English language and its correct use in written communication. Topics include sentence structure, parts of speech, grammar and punctuation rules in addition to extending these rules to sentences and paragraphs.

FUND 0080 Reading Skills - 90 Hours

This course will provide students with a foundation in reading skills, build vocabulary, and will provide practice recalling and interpreting information.

FUND 0085 Math Skills - 60 Hours

In this course students will learn to perform all four basic math operations accurately with whole numbers, fractions and decimals. Students will also be introduced to percentage and converting between fractions, decimals and percents.

FUND 0090 Study Skills - 30 Hours

Students will learn to use effective study habits and strategies for remembering information found in their textbooks and heard in class lectures. Students will also learn to use a strategy for reading and taking notes from textbooks, in class, and learn effective strategies for taking the five types of tests most frequently given by teachers.

MATH 1000 Math I - 60 Hours

This course offers an introduction to basic mathematics using mathematical concepts that can be applied to everyday life. Topics include fractions, decimals, ratios, proportions, conversions, averages and percentages. Prerequisites: TABE Computation score of 570 or higher or FUND 0085 Computational Math Skills.

MATH 1000_ Math I (Program Based) - 60 Hours

This course offers an introduction to basic mathematics using mathematical concepts that can be applied to everyday life. Topics include fractions, decimals, ratios, proportions, conversions, averages and percentages. Prerequisites: TABE Computation score of 570 or higher or FUND 0085 Computational Math Skills

MEDA 1100 Medical Terminology - 90 Hours

This course provides the student with the necessary skills to interpret and understand medical terminology, in order to be successful in the pursuit of health occupation careers. This is accomplished by utilizing a method of study that not only instructs the students in building medical terms but also gives the student immediate application in utilizing the medical term.

MEDA 1200 Medical Law and Ethics - 60 Hours

This course provides the student exposure to the legal and ethical issues that impact the healthcare setting, including guidelines, requirements, risk management and application of HIPPA regulations.

MEDA 1300 Psychology for Healthcare Professionals - 30 Hours

This course will provide the student with the basic principles of psychology required in a healthcare environment including the identification of developmental stages of the life cycle, hereditary, cultural and environmental influences on behavior and mental health issues.

STEC 1010 Anatomy and Physiology for Surgical Technologists - 120 Hours

Anatomy and physiology is the study of the structure and function of the human body. This course includes a review of all organ systems including disease processes and diagnostic treatment modalities. These concepts are crucial to the understanding of the necessity and processes of medical and surgical intervention and the effect this intervention has on the body.

STEC 1021 Introduction to Microbiology - 60 Hours

This course provides an introduction to the fundamentals of Microbiology and the effect microorganisms have on everyday life, health, and the care of patients in the healthcare setting. Understanding microorganisms, their requirements for growth, potential for causing disease, and methods used to control infection is essential knowledge necessary to help contain the spread of infectious agents in the healthcare field.

STEC 1031 Introduction to Surgical Technology - 75 Hours

This course introduces students to the Surgical Technology profession and develops the fundamental concepts and principles necessary to successfully participate on a surgical team. Emphasis is placed on the team approach to surgical patient care. Information presented in this course includes an introduction to the surgical environment, potential hazards that can be dangerous to both the surgical technologist and the patient, and the methods utilized to prevent the spread of infection. This course includes 16 hours of on-site participation in a central processing department to apply concepts related to sterilization, instrument identification, and processing.

STEC 1040 Principles of Surgical Technology - 60 Hours

This course is a continuation of the principles of surgical asepsis and the creation and maintenance of a sterile field. Suturing materials and concepts focusing on wound healing and management are introduced. Also included is an exploration of the basic principles of surgical intervention, minimally invasive and ambulatory surgery, and an introduction to principles related to the safe use of electricity, physics, and robotics in the operating room. This course includes 16 hours of student observation in an operating room which will allow them to begin to apply the concepts of aseptic technique.

STEC 1051 Surgical Pharmacology - 50 Hours

This course covers the Surgical Technologist's role in the administration of medications and solutions to the surgical patient. Utilizes a basic understanding of mathematics to accurately measure and convert medication dosages and teaches general terminology associated with pharmacology. The Surgical Technologist's legal and ethical responsibilities associated with these skills are emphasized.

STEC 1055 Surgical Technology Lab I - 80 Hours

The Surgical Technology Lab I component of the program introduces students to the basic "hands-on" skills that will be performed during the clinical/externship portion of this program. Students will practice each skill set until he or she is safe, comfortable, and competent. The skill set will then be signed off by the lab instructor.

STEC 1060 Surgical Patient Care - 30 Hours

This course introduces concepts relevant to caring for patients having surgery. Discussion of patient response to illness and surgical intervention, as well as specific care measures needed for specific patient populations assist the student to learn to anticipate special needs and equipment that may be necessary during the surgical procedure. Knowledge and skills utilized both for patient preparation for surgery and care during the surgical procedure are emphasized.

STEC 1070 Surgical Procedures I - 60 Hours

This course explores various surgical specialties including: general surgery, gastrointestinal surgery, obstetrics and gynecological surgery, genitourinary surgery, oral and maxillofacial surgery, ENT surgery, and ophthalmic surgery. Relevant anatomy for the related body systems is reviewed and pathophysiology processes that indicate the need for surgical intervention are discussed. The steps of the surgical procedures, patient preparation, and instrumentation specific to the specific surgery will be emphasized.

STEC 1075 Surgical Technology Lab II - 60 Hours

The Surgical Technology Lab II component of the program will continue to build upon the basic skills learned in the first lab component. Students will practice each skill set until he or she is safe, comfortable, and competent. The skill set will then be signed off by the lab instructor.

STEC 1080 Surgical Procedures II - 60 Hours

This course continues the exploration of various surgical specialties including: plastic and reconstructive surgery, orthopedic surgery, neurosurgery, cardiothoracic surgery, and peripheral vascular surgery. Relevant anatomy for the related body systems is reviewed and pathophysiology processes that indicate the need for surgical intervention are discussed. The steps of the surgical procedures, patient preparation, and instrumentation specific to the specific surgery will be emphasized.

STEC 1085 Surgical Technology Lab III - 60 Hours

The Surgical Technology Lab III component of the program will task the student with combining the basic and advanced skills that were learned in the previous lab components. Students are now in the final preparation phase for entry into the clinical/externship portion of the program and must become competent and efficient with setting up for, and anticipating the flow of activities that occur during a surgical procedure. In order to successfully complete this lab component and be competent to begin a clinical externship, students are required to perform all the steps of the final lab skill assessment, error free, on two separate occasions.

STEC 2010 Introductory Surgical Practicum - 300 Hours

This course orients students to the clinical environment and provides experience with the basic skills required for the profession. Emphasis is on demonstrating increasing knowledge and participation on routine procedures for general and specialty surgical procedures. This course may be a co-requisite with Surgical Procedures II and requires at minimum, a 4 days a week (eight hour days) clinical externship.

STEC 2020 Advanced Surgical Practicum - 300 Hours

This course provides the opportunity for students to complete all required Surgical Technology procedures through active participation as a part of the surgical team. This course requires at minimum, 4 days a week (8 hour days) clinical externship.

STEC 2026 Seminar in Surgical Technology - 20 Hours

The student has, at this point, acquired the knowledge and skills necessary to become employed as an entry-level Surgical Technologist. However, there is much more to a professional career than just "getting the job." Professionalism implies that a worker demonstrate characteristics that will enable them to continue to progress and change with the career. This course discusses factors associated with making career decisions that can enhance a Surgical Technologist's professional growth and success.

WKSK 1400_ Workplace Relations (Program Based) - 60 Hours

This course will help students develop essential human-relation skills needed to maintain gainful and satisfying employment. This course includes familiarization with problematic areas found in the workforce including, solving problems; understanding relationships and diversity; increasing personal ethics; and developing strong personal, interpersonal, and human relation skills.

WKSK 1400B Workplace Relations - Blended - 60 Hours

This course will help students develop essential human-relation skills needed to maintain gainful and satisfying employment. Course content includes familiarization with problematic areas found in the workforce including, solving problems; understanding relationships and diversity; increasing personal ethics; and developing strong personal, interpersonal, and human relation skills.

WKSK 1500_ Job Seeking Skills (Program Based) - 30 Hours

This course helps prepare students to successfully apply for a job. This course will present essential job-seeking skills needed to find gainful employment including: developing resumes, applications, networking and interview skills.

WKSK 1500B Job Seeking Skills - Blended - 30 Hours

This course helps prepare students to successfully apply for a job. This course will present essential job-seeking skills needed to find gainful employment including: developing resumes, applications, networking and interview skills.
