

Clinical and Administrative Medical Assisting

This program is offered at **Bakersfield, Fresno, Hesperia, Modesto, Visalia, and Temecula.**

Program Description

This is a 60 school week program which provides specialized training for employment in medical offices and medical specialty clinics. The curriculum includes theory and practical applications in both administrative and clinical medical procedures. Topics and applications in the following subjects are included in this program: human anatomy and physiology, medical terminology, medical clinical procedures such as vital signs, injections, venipuncture, and ECG, health histories, patient care and emergency procedures, office management, patient records and files, bookkeeping, professional communications, insurance claims preparation, and the professional organization and operation of the health care facility. The student will also receive training in HIPAA, CPR & first aid. Drug and alcohol testing, criminal history background checks, health screenings and immunizations may all be conditions of acceptance for clinical and extern education in a medical setting. Student will be required to complete all health screening and immunization requirements of extern site prior to beginning externship hours. San Joaquin Valley College will pay for the cost of required screenings and immunizations.



Program Student Learning Outcomes

Upon completion of this program, the graduate will be able to:

1. Manage the front office of a health care facility and perform administrative duties such as patient charting, billing, letter writing, and handling coding procedures for insurance purposes using a variety of applicable software.
2. Perform clinical skills such as taking vital signs, dosage computations, venipuncture, injections, hematology, administration of medication, specimen collection, and emergency procedures.
3. Distinguish the various systems of the human body and explain their function using proper medical terminology.
4. Communicate effectively orally and in writing and demonstrate the knowledge and skills required to be eligible and prepared for the Registered Medical Assistant (RMA) exam.
5. Relate and apply concepts of communication, reasoning, critical analysis, ethical behavior and appropriate interpersonal interaction to situations in his or her career and personal life.
6. Demonstrate the social skills, professional appearance, attitudes and behavior that employers expect of all *SJVC* graduates.

The following courses are required to obtain a degree in this field.

Course ID	Course Name	Credit Units
AMA 23	Medical Office Management	3.0
AMA 33	Medical Insurance	3.0
AMA 203	Medical Office Management Computer Applications	2.0
CL 110	Computer Literacy and Applications for the Healthcare Professional	2.0
CMA 31	Medical Laboratory Procedures 1	2.0
CMA 41	Medical Laboratory Procedures 2	2.0
CMA 42*	Medical Office Simulations and Professional Development 2	3.0
CMA 201	Medical Assisting Applications 1	2.0
CMA 202	Medical Assisting Applications 2	2.0
ENG 121	Composition and Reading – Part A	3.0
ENG 122	Composition and Reading – Part B	3.0
HTH 101	Anatomy and Physiology for the Health Professions 1	3.0
HTH 102	Anatomy and Physiology for the Health Professions 2	3.0
HTH 103	Human Relations and Health Care	3.0
HTH 500	Externship or Clinical Rotations	4.0
MCA 101	Clinical Applications 1	2.0
MCA 102	Clinical Applications 2	2.0
MTH 121	College Algebra – Part A	3.0
MTH 122	College Algebra – Part B	3.0
NSC 1	Intro to Natural Sciences	3.0
PHIL 1C	Ethics	3.0
PSY 1	General Psychology	3.0
SOC 1	Intro to Sociology	3.0

*This course satisfies the CSS100 graduation requirement.

Program Graduation Requirements:

Students must earn a grade of "C" or higher in all CAMA lab courses. Students will participate in discussions of customer service, human relations, and professional behavior applications throughout this program. Students must also meet the minimum requirement of the HIPAA component in order to be eligible for graduation.



components, overhaul of carburetors and repair of engine fuel metering systems and components will be covered. The student will also learn inspection and troubleshooting techniques.

AERO 35: Composite Structures

9.0 units – 256 hours

Inspection and repair of wood, composite and fabric-covered structures, techniques for aircraft conformity and airworthiness inspection, techniques involved with aircraft electronic systems, including autopilot, communication and navigation systems, and techniques involving the application of aircraft finishes, including paint and dope, will be examined in this course. This course will also include techniques of welding and the fabrication and repair of structures by welding.

AERO 36: Propellers and Engine Auxiliary Systems

9.0 units – 256 hours

This course will cover the following topics: inspection and repair techniques of engine fire detection and extinguishing systems, inspection, repair and troubleshooting propeller control systems, power plant electrical systems, balance propellers, and inspection, repair and troubleshooting auxiliary engine systems.

AERO 37: Aircraft Landing Gear

9.0 units – 256 hours

This course will cover the inspection, troubleshooting and repair of landing gear retraction systems, including shock struts, wheels, brakes, and tires. Topics include: checking and servicing of fuel management and dump systems, inspection and repair of aircraft auxiliary systems, including ice and rain control, smoke and carbon monoxide warning systems, and fire detection and extinguishing systems and landing gear.

AERO 51: Professional Licensing Seminar

2.0 units – 64 hours

The focus of this course is the review and practical application of the AMT license examination. Students will prepare for both the written and practical examinations. The course also covers a review of the professional opportunities for the AMT graduate. Professional development and employment skills including resume writing, interview techniques, and personalized job search planning will be covered in this class. The final grade in this class includes projects and assignments related to professional development and employment skills.

AMA 23: Medical Office Management

3.0 units – 45 hours

The front office management of a health care facility is examined in this course. Students will learn the theory of fee-for-service, insurance, and coding procedures for various insurance and HMO applications. Students will understand patient management, appointment management, and telephone procedures.

AMA 33: Medical Insurance

3.0 units – 45 hours

This course presents a comprehensive look at medical insurance billing requirements and skills necessary to successfully file claims and effect collection of payment for medical services given.

AMA 203: Medical Office Management Computer

Applications

2.0 units – 45 hours

The operation and management of software used to run the modern medical office facility will be utilized in this course. This course presents the skills necessary to manage Electronic Health Records (HER) for entering, locating, and reviewing patient information as well as applying official coding principles. Keyboarding skills are part of each class session.

AMA 303: Medical Insurance Computer Applications

2.0 units – 45 hours

This course presents the skills necessary to manage medical insurance on the computer with specially designed software programs. Keyboarding skills are part of each class session.

APMT 1: Anatomy and Physiology with Medical Terminology

5.0 units – 90 hours

This course provides an overview of medical terminology including basic word construction, abbreviations and symbols used in the profession. An extensive study of the human body includes basic chemistry, organization, cells, tissues, membranes and human diseases. Emphasis is placed on the integumentary, skeletal, muscular, nervous, sensory, endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems. **A grade of "C" or better is required for successful completion of the course.**

BA 110: Administrative Operations and Procedures 1

3.0 units – 45 hours

This course focuses on the primary skills and duties of the Administrative Business Specialist. Topics include: telephone techniques, fax, appointment scheduling and management, e-mail, utilization of Microsoft Outlook, telecommunications, and other effective communication methods. Meeting and agenda planning, travel arrangements, and human relations will also be covered. An introduction and overview of records management consisting of alphabetic, subject, numeric, geographic, and correspondence storage methods will be introduced. Organization and time management are incorporated into all aspects of this course.

BA 210: Business Writing

2.0 units – 45 hours

This course focuses on the effective writing techniques utilized in business to produce various communications and documents, including business letters, minutes and reports, and dictation and note taking are the emphasis of this course. The keeping of minutes and transcription of dictated material into usable business communication will be practiced throughout the course. Specialized business terminology (legal, banking, insurance and real estate) will be reviewed. Proper grammar, punctuation, capitalization, vocabulary, proofreading, and number usage are emphasized as well as form and content. Importance is placed on style, appearance, tone, vocabulary and reader appeal. This course involves research and report writing projects. The importance of oral communication in business is also covered.

requirements for Corrections/Custodial Officers who are assigned to custody positions in city/county/private jails or facilities. The content is job-related and is certified by Corrections Standards Authority (CSA Certification #601-1253). The course includes First Aid/CPR/AED training, Defense Tactics, Control Techniques, and Fire/Life Safety Training.

CJ 61-A: PC 832 – Laws of Arrest

3.0 units – 45 hours

This is the mandatory introductory course of training prescribed by the Commission on Peace Officer Standards and Training (POST) for every person described in the Penal Code as a peace officer. This training is required for all Correctional/Custodial Officers in California. This course is provided through a POST certified outside contractor. All standards of attendance and professionalism are in effect. Should a student fail the course, the student assumes responsibility for all costs associated with retake.

CJ 61-B: PC 832 – Firearms Course

2.0 units – 45 hours

This is the mandatory introductory course of firearms training prescribed by the Commission on Peace Officer Standards and Training (POST) for every person described in the Penal Code as a peace officer who carries a firearm. This training is required for all Correctional/Custodial Officers in California who carry a firearm during the course of their employment. This course meets Reserve Level III requirements. All students must have a handgun, holster, and a reloading device for their weapon to participate in firearms training. This course is provided through a POST certified outside contractor. All standards of attendance and professionalism are in effect. Should a student fail the course, the student assumes the responsibility for all costs associated with retake.

CJ 62-A: PC 832 Laws of Arrest

3.0 units – 45 hours

This is the mandatory introductory course of training prescribed by the Commission on Peace Officer Standards and Training (POST) for every person described in the Penal Code as a peace officer. This training is required for all Correctional/Custodial Officers in California. This course meets Reserve Level III requirements. This course is provided through a POST certified outside contractor. All standards of attendance and professionalism are in effect. Should a student fail the course, the student assumes responsibility for all costs associated with retake.

CJ 62B: PC 832 Police and Security Weapons

2.0 units – 45 hours

This is the mandatory introductory course of firearms training prescribed by the Commission on Peace Officer Standards and Training (POST) for every person described in the Penal Code as a peace officer that carries a firearm. This training is required for all Correctional/Custodial Officers in California that carry a firearm. The course meets Reserve Level III requirements. All students must have a handgun, holster, and a reloading device for their weapon to participate in firearms training. This course is provided through a POST certified outside contractor. All standards of attendance and professionalism are in effect. Should a student fail the course, the student assumes responsibility for all costs associated with retake.

CL 110: Computer Literacy and Applications for Healthcare Professionals

2.0 units – 45 hours

This course provides an introduction to computer concept with Word and Excel processing through hands-on operation. Topics include information on basic computer technology, file management, creation and execution of documents and spreadsheets and e-mail. Computer activities include Internet research and the creation of various documents and reports related to the medical field.

CL 121: Computer Literacy & Applications 1

2.0 units – 45 hours

The course is designed to provide the student with an introduction to the components of the Microsoft Office Suite. Emphasis of this class will be Microsoft Word 2007 and PowerPoint 2007. Students will be tested for skill competency on a regular basis. Keyboarding skills are part of each class session. Students will participate in timed keyboarding skill tests.

CL 122: Computer Literacy & Applications 2

2.0 units – 45 hours

This course is designed to provide the student with an introduction to the components of Microsoft Office Suite. Emphasis of this class will be Microsoft Excel and Outlook applications. Students will learn to utilize Microsoft Outlook for email and other effective communication methods. Students will learn to build a worksheet using commands such as copying, formatting, identifying ranges, and the functions of formulas. Students will be tested for skill competency on a regular basis. Keyboarding skills are part of each class session. Students will participate in timed keyboarding skill tests.

CMA 31: Medical Laboratory Procedures 1

2.0 units – 45 hours

The theory and technique of electrocardiograms (ECG), hematology, chemistry, lab values and various other lab procedures are discussed and performed in this course. **A grade of "C" or better is required for successful completion of the course.**

CMA 32: Medical Office Simulations and Professional Development 1

2.0 units – 45 hours

This course is a review of the administrative office procedures, such as patient charting, billing, insurance plan types, letter writing, patient scheduling, patient relations, answering phones, medical abbreviations, and taking messages. Students will work in small groups to simulate actual on-the-job performance. A front office skill evaluation and over-all competency exam will be given as part of this course. Keyboarding skills are part of each class session. **A grade of "C" or better is required for successful completion of the course.**

CMA 41: Medical Laboratory Procedures 2

2.0 units – 45 hours

The review of theory and techniques of venipuncture, hematology, and various other lab procedures are discussed and performed in this class. An introduction to radiology is provided. **A grade of "C" or better is required for successful completion of the course.**

CMA 42: Medical Office Simulations and Professional Development 2

3.0 units – 45 hours

This course will focus on professional development and preparing for the Registered Medical Assistant (RMA) exam. The course includes the review and application of clinical skills and concepts such as medical terminology, body systems, injections, vital signs, venipuncture, and the use of surgical instruments. *Students will participate in discussion of customer service, human relations and professional behavior applications throughout this course.*

CMA 105: Clinical Applications 1

3.0 units – 45 hours

This course introduces the history of medicine and an overview of OSHA regulations and compliance. Topics included in this course: infection control, sterile techniques, care and operation of medical equipment, tray set-ups and basic concepts of radiology. This course also includes procedures to perform cardiopulmonary resuscitation (CPR), First Aid, emergency patient care, law and ethics pertaining to emergency procedures, and medical office safety procedures. Patient education, quality care and professional behavior are emphasized throughout this course.

CMA 120: Medical Assisting Procedures 1

5.0 units – 90 hours

This course covers essential techniques and step-by-step procedures for venipuncture and various specimen collections focusing on the Medical Assistant's scope of practice for laboratory procedures. Topics include Occupational Safety and Health Administration (OSHA) and Clinical Laboratory Improvement Amendment (CLIA) regulations, universal precautions, and infection control. An overview of anatomy and physiology of the circulatory system and hematology are covered. Patient education, quality care and professional behavior are emphasized throughout this course. **A grade of "C" or better is required for successful completion of the course.**

CMA 121: Basic and Advanced Phlebotomy Theory

5.0 units – 90 hours

This course covers essential techniques and step-by-step procedures for venipuncture and various specimen collections focusing on the Medical Assistant's scope of practice for laboratory procedures. Topics include Occupational Safety and Health Administration (OSHA) and Clinical Laboratory Improvement Amendment (CLIA) regulations, universal precautions, infection control and sterile techniques. An overview of anatomy and physiology of the circulatory system and hematology are introduced. The Medical Assistant's responsibility in providing patient education, quality care, and demonstrating professional behavior are emphasized throughout this course.

CMA 125: Basic and Advanced Phlebotomy

5.0 units – 90 hours

This course covers essential techniques and step-by-step procedures for venipuncture and various specimen collections focusing on the Medical Assistant's scope of practice for laboratory procedures. Topics include Occupational Safety and Health Administration (OSHA) and Clinical Laboratory Improvement Amendment (CLIA) regulations, universal precautions, infection control and sterile

techniques. An overview of anatomy and physiology of the circulatory system and hematology are introduced. The Medical Assistant's responsibility in providing patient education, quality care, and demonstrating professional behavior are emphasized throughout this course. **A grade of "C" or better is required for successful completion of the course.**

CMA 141: Medical Assisting Competencies

5.0 units – 90 hours

This course focuses on the role of the Medical Assistant in assisting with various exams. Students will be introduced to fundamental clinical skills such as obtaining and recording vital signs, preparing rooms and setting up trays. Topics include OSHA guidelines, regulations, ambulation and mobility instruction, basic concepts of diet and exercise and the theory of cardiopulmonary resuscitation (CPR), First Aid, emergency procedures and medical office safety procedures. An overview of anatomy, physiology, and medical terminology related to the cardiovascular and respiratory systems are covered. In addition, students will receive an introduction to basic concepts of radiology. The Medical Assistant's responsibility in providing patient education, quality care and demonstrating professional behavior are emphasized throughout this course.

CMA 145: Medical Assisting Competencies

5.0 units – 90 hours

This course focuses on the role of the Medical Assistant in assisting with various exams. Students will be introduced to fundamental clinical skills such as obtaining and recording vital signs, preparing rooms and setting up trays and performing EKG's. Topics include OSHA guidelines, regulations, ambulation and mobility instruction, basic concepts of diet and exercise and the theory of cardiopulmonary resuscitation (CPR), First Aid, emergency procedures and medical office safety procedures. An overview of anatomy, physiology, and medical terminology related to the cardiovascular and respiratory systems are covered. In addition, students will receive an introduction to basic concepts of radiology. The Medical Assistant's responsibility in providing patient education, quality care and demonstrating professional behavior are emphasized throughout this course. **A grade of "C" or better is required for successful completion of the course.**

CMA 150: Clinical Applications 2

2.0 units – 45 hours

This course focuses on the role of the Medical Assistant in assisting with various exams. Students will demonstrate fundamental clinical skills such as obtaining and recording vital signs, preparing rooms, setting up trays and performing ECSs. Topics include OSHA guidelines, regulations, ambulation and mobility instruction, and basic concepts of diet and exercise. Patient education, quality care and professional behavior are emphasized throughout this course. **A grade of "C" or better is required for successful completion of the course.**

CMA 160: Medical Assisting Procedures 2

5.0 units – 90 hours

This course will review the anatomy, physiology and terminology as it pertains to pharmacology, injections, immunizations, and medication administration. Patient charting and instrumentation for injections and general procedures pertaining to the administration of

medication are covered. Students will learn the components of a prescription and the terminology associated with medication orders. Students will review basic math concepts and learn dosage calculations. **A grade of "C" or better is required for successful completion of the course.**

CMA 161: Introduction to Pharmacology and Administration of Medication

5.0 units – 90 hours

This course will review the anatomy, physiology and terminology as it pertains to pharmacology, injections, immunizations, and medication administration. Patient charting and instrumentation for injections and general medical procedures pertaining to the administration of medication are covered. Students will learn the components of a prescription and the terminology associated with medication orders. Students will review basic math concepts and learn dosage calculations. The Medical Assistant's responsibility in providing patient education, quality care, and demonstrating professional behavior are emphasized throughout this course. **A grade of "C" or better is required for successful completion of the course.**

CMA 170: Medical Office Applications and Communication

5.0 units – 90 hours

This course provides comprehensive HIPAA (Health Insurance Portability and Accountability Act) compliance training and focuses on communication skills, telephone etiquette, and the administrative duties performed in a medical office. Students are introduced to basic computer concepts with an emphasis on the application of medical office practice management software and word processing software. Professional development and employment skills are covered in this course. The Medical Assistant's responsibility in demonstration professional behavior is emphasized throughout this course.

CMA 201: Medical Assisting Applications 1

2.0 units – 45 hours

This course teaches pharmacology, administration of medication, and the skills of patient preparation and assessment for various clinical procedures. Sites and techniques of injections, and various other clinical procedures as well as health and nutritional concepts are included in this course. **A grade of "C" or better is required for successful completion of the course.**

CMA 202: Medical Assisting Applications 2

2.0 units - 45 hours

This course teaches the skills required for various clinical procedures. Basic equipment set-ups, step-by-step procedures, venipuncture techniques and specimen collection are included in this course. **A grade of "C" or better is required for successful completion of the course.**

CMA 501: Exam Prep

1.0 units – 30 hours

This course will focus on professional development and preparing for the National Certification exam either through NCCT (National Center for Competency Testing) or AMT (American Medical Technologists). This course includes review of clinical skills and concepts of medical terminology, body systems, injections, vital

signs, venipuncture, prescription drug dosage calculations and the use of surgical instruments. .

CMA 502: Externship Seminar

2.0 units – 30 hours

Students will return to campus during their clinical externship to meet with an instructor on a weekly basis over a period of five (5) weeks. In this workshop style course, students will assess their performance and application of acquired skills and knowledge. This course will also assure appropriate professional direction and will reinforce basic knowledge and skills. The grade earned in this course is Pass/Fail and is based largely on attendance, consistent portrayal of professionalism, and demonstration of skills aptitude

CMP 100: Computer Concepts

3.0 units – 45 hours

This course provides the essential concepts of the basic software and hardware components of the computer. Fundamental skills and terminology are introduced for students to become familiar with the Windows environment and operating systems. This course introduces students to the World Wide Web, file management, browsers, and email basics. Word processing, presentation software, and electronic spreadsheet basics are presented and practiced as they relate to various professions. Students will participate in real-world tasks to develop their skills in obtaining, processing, sorting, and presenting information.

CMP 101: Introduction to Microsoft Office 1

5.0 units – 90 hours

This course is designed to provide introductory and intermediate skills in Microsoft Office through hands-on operations and practice of simulated business projects and activities. Emphasis is placed on Word and PowerPoint applications. This course includes functions such as word processing, document formatting, mail merge, automating your work, and organization and arrangement of PowerPoint presentations. Skills competency will be assessed throughout this course. Keyboarding skills are included.

CMP 102: Introduction to Microsoft Office 2

5.0 units – 90 hours

This course is designed to provide introductory and intermediate skills in Microsoft® Office through hands-on operations and practice of simulated business projects and activities. Emphasis is placed on Excel and Access applications. Students will learn to build a worksheet using commands such as copying, formatting, identifying ranges, and the functions of formulas. Students will also learn the basics of Access, how to create, maintain, and work with a database. Skill competency will be assessed throughout this course. Keyboarding skills are included.

CMP 110: Computer Applications in Construction Management

5.0 units – 90 hours

This course provides a foundational approach to Construction Industry software, including a basic introduction to Estimating and Project Scheduling. The curriculum is designed to provide a fundamental overview of the software packages that students will utilize in subsequent coursework.

3.0 units – 45 hours

This course provides a general introduction and overview of economics and the role economics play in society today. Topics in the course include business and consumer loans, taxes, depreciation methods, financial statements, business statistics, the roles of supply and demand, and competitive pricing and the role of money in the economy. Students will conduct office and business simulations using the most appropriate software applications.

ENG 1: Writing and Composition

3.0 units – 45 hours

This course is designed to provide competency in accurate and effective written expression of the English language. Examples of English written expression will be reviewed for the organization of material, clarity and directness of style, and idiomatic correctness. A wide variety of poetry, prose, and expository types of literature will be explored. Experience in the preparation of a formal research paper is included.

ENG 121: Composition and Reading – Part A

3.0 units – 45 hours

This is the first in a 2-part college level English course. In this course, students will learn the foundation of critically reading and writing in a variety of rhetorical modes. Students will read various essays and literature, and apply critical analysis to their own writing. Students will practice all aspects of the writing process, and by the end of Part B, they will meet a goal of writing a minimum of 6000 words through a variety of assignments.

ENG 122: Composition and Reading – Part B

3.0 units – 45 hours

This course is the second portion of our college level English course. By building on the skills learned in Part A, students will continue to critically read and write in a variety of rhetorical modes. Students will read various essays and literature, and apply critical analysis to their own writing. In this course they will build information literacy skills through research, and describe the connection between effective communication and professionalism. Students will complete their goal of writing a minimum of 6000 words.

ESSM 1: OSHA Regulations and Compliance

5.0 units – 90 hours

Fundamentals of health and safety management are covered with strategies for Cal-OSHA compliance, including hazard identification, emergency action planning, Senate Bill-198, and OSHA's General Duty Clause and inspection procedures. Topics include: proper record keeping, selection and evaluation of personal protective equipment, ergonomics, fire safety, hazardous material identification, illness/injury prevention, and accident investigation. Employee training techniques and creation of a corporate safety plan are also covered.

ESSM 2: Health Care Security and Safety Administration

2.0 units – 45 hours

This course covers the International Association for Healthcare Security and Safety curriculum and safety training for security officers. Topics include: public and community customer relations, self-protection and defense, report preparation and writing, judicial process, courtroom procedures, testimony, criminal and civil law, fire

safety and emergency preparedness, hazardous materials and emergency response, and techniques for effective assault management.

ESSM 3: Environmental Management

3.0 units – 45 hours

This course provides an overview of the issues, impacts, legislation, technologies and strategies of environmental managers in public and private sectors. Students will learn to use research resources available to become familiar with current environmental events and issues in the workplace.

ESSM 21: Applied Anatomy and Physiology

2.0 units – 45 hours

This course focuses on basic anatomy and physiology of the human body. Emphasis is placed on the use of anatomical knowledge to identify and assess critical emergency situations. Students will be prepared to effectively understand the process of human anatomy in relation to mental preparedness for emergency situations.

ESSM 30: Safety in Construction Occupations

2.0 units – 45 hours

This course meets the requirements of Title 8 (GISO Construction Safety Orders). This course examines the human factors in construction safety, the results of research studies in construction safety, and safety and health team building. The student will be able to describe the similarities between construction quality and safety, including the scope, causes, and effects of associated problems.

ESSM 31: Safety in Agriculture Occupations

2.0 units – 45 hours

This course focuses on the health and risk factors in agriculture occupations. Students will learn to identify and manage the most common environmental and health risks seen in agriculture today.

ESSM 33: HazMat/HazWoper

2.0 units – 45 hours

This course meets the requirements of Title 19 (Public Safety). This course examines the role of the first responder (peace officer, firefighter, emergency medical technician) in the handling of hazardous materials, as well as the role of all employers in hazardous materials waste operations and emergency response. The student will be familiar with the indicators and warning systems that identify specific types of hazardous materials in order to respond safely and effectively to hazardous materials incidents. The student will demonstrate a clear understanding of the need for safety, isolation and notification when acting as a first responder at the scene of a hazardous materials incident.

ESSM 43: Campus Security

2.0 units – 45 hours

This course focuses on the role and responsibilities of school security officers, security awareness in the educational environment, mediation and conflict resolution, strategies for management of disasters and emergencies, the dynamics of student behavior, and the law and liability issues inherent in the school environment. This course prepares the student with all of the necessary "Basic" training that allows them to be considered as a viable candidate to become an entry level Campus Security Officer. This course meets all

effective facility communications. Procedures and practices related to common settings will be explored. **A grade of "C" or better is required for successful completion of the course.**

HTH 101: Anatomy and Physiology for the Health Professions 1

3.0 units – 45 hours

This course provides an overview of the basic principles of anatomy and physiology of various systems of the human body. Medical specialties, diseases, treatments and diagnostic testing pertaining to the various body systems along with the role and responsibilities of the medical assistant will be covered in this course. This course provides the opportunity to develop a medical vocabulary including medical abbreviations and symbols through the study of the principles of word construction and word analysis, with emphasis on spelling and pronunciation.

HTH 102: Anatomy and Physiology for the Health Professions 2

3.0 units – 45 hours

This course provides an overview of the basic principles of anatomy and physiology of various systems of the human body. Medical specialties, diseases, treatments and diagnostic testing pertaining to the various body systems along with the role and responsibilities of the medical assistant will be covered in this course. This course provides the opportunity to develop a medical vocabulary including medical abbreviations and symbols through the study of the principles of word construction and word analysis, with emphasis on spelling and pronunciation.

HTH 103: Human Relations and Health Care

3.0 units – 45 hours

This course focuses on the role of the health care professional in real life situations relating to a variety of patients. The interactive skills necessary for dealing with individual differences, personalities and socioeconomic factors are emphasized. The course includes an overview of legal and ethical problems within the health care professions. Conflict resolution is also covered in this course.

HTH 104: Medical Terminology

5.0 units – 90 hours

This course provides an overview of the basic principles of anatomy and physiology of various systems of the human body. Medical terminology, vocabulary, and applications are the focus of this course. Medical specialties pertaining to the various body systems along with the role and responsibilities of the medical assistant will be covered in this course. The Medical Assistant's responsibility in providing patient education, quality care, and demonstrating professional behavior are emphasized throughout this course.

HTH 106: Medical Terminology

3.0 units – 45 hours

This course provides an overview of the basic principles of anatomy and physiology of various systems of the human body. Medical terminology, vocabulary and applications, and medical specialties pertaining to the various body systems are the focus of this course.

HTH 500: 180 hour Externship and Professional Experience

4.0 units – 180 hours

Students will apply their acquired skills and knowledge in taking on the responsibilities and duties of an extern trainee in a practical setting under direct supervision of the Physician, PA, NP, RN, LVN, or office manager. Maintaining SJVC expected professionalism, proper policy and protocol along with upholding the state and federal law at all times is essential. The teaching/learning facility will provide appropriate supervision and evaluation of student performance under the direction of Extern/Clinical Coordinator. The grade earned in this course is Pass/Fail. **Passing this course is a graduation requirement.**

HTH 560: 160 hour Externship and Professional Experience

3.0 units – 160 hours

Students will apply their acquired skills and knowledge in taking on the responsibilities and duties of an extern trainee in a practical setting under direct supervision of the Physician, PA, NP, RN, LVN, or office manager. Maintaining SJVC expected professionalism, proper policy and protocol along with upholding the state and federal law at all times is essential. The teaching/learning facility will provide appropriate supervision and evaluation of student performance under the direction of Extern/Clinical Coordinator. The grade earned in this course is Pass/Fail. **Passing this course is a graduation requirement.**

ICS 1: Intermediate Computer Skills 1

2.0 units – 45 hours

This course focuses on intermediate word processing using Microsoft Word. Students will be tested for skill competency on a regular basis. Keyboarding skills are part of each class session. Students will participate in timed keyboarding skill tests.

ICS 2: Intermediate Computer Skills 2

2.0 units – 45 hours

This course focuses on database concepts using Microsoft Access. Students will be tested for skill competency on a regular basis. Keyboarding skills are part of each class session. Students will participate in timed keyboarding skill tests.

IT 101: Industrial Electricity

10.0 units – 180 hours

This seven-part course discusses the elements and applications of electricity that are common to any industrial facility. In strict accordance with the National Electric Code, this course will introduce students to electrical theory with an emphasis in those energy sources developed for commercial and manufacturing use.

IT 110: Power Transmission

5.0 units – 90 hours

This course includes the operation, maintenance, safety, and troubleshooting of machinery, industrial bearings, industrial drive gears and gear systems, shaft joining and coupling devices.

IT 120: Fluid Power

5.0 units – 90 hours

This course presents basic concepts and operation of fluid power, demonstrating knowledge in maintenance, safety, and troubleshooting. Students will perform fluid power operation in the use of hydraulic power systems, symbols and schematic interpretation, industrial hydraulics, pressure control valves,

This course prepares the student to successfully perform spa modalities either as a sole practitioner adding spa services to a massage practice, or as a valuable employee in a spa. The course covers the theory behind these techniques, contraindications, the benefits of each treatment, the history of spas and bathing, the roots of spas in antiquity, and the differences in Asian, European and American spa models as they developed over time.

MCA 101: Clinical Applications 1

2.0 units – 45 hours

This course focuses on the basic pre-clinical skills such as sterile techniques, OSHA regulations, and equipment operation and maintenance. Basic instrument identification, sanitation, disinfecting, sterilizing and autoclaving are covered in this course.

MCA 102: Clinical Applications 2

2.0 units – 45 hours

This course teaches CPR, First Aid, vital signs, and emergency procedures. Taking and recording vital signs are part of each class session.

MGT 104: Office Supervision and Organization

3.0 units – 45 hours

This course emphasizes functional office practices necessary in the operation of any business. Students will examine the manager's environment including social responsibility, law and ethics, efficient business organization, and human resources management. Other topics covered include an introduction and overview of office operations, an overview of typical business structure, day-to-day operations and procedures, and information systems.

MGT 110: Career Development

3.0 units – 45 hours

This course helps to prepare the online student with certain skills that are useful for the job search as well as for career development. Professional development and employment skills are the focus and topics covered include resume and professional letter writing, interview techniques, and conducting the job search through the internet. In addition, planning strategies and resources are also examined with an emphasis on maximizing career advancement potential and long-term professional growth. Students will complete assignments, projects, exams, and a final portfolio that emphasize career development and employment skills.

MKT 100: Marketing

3.0 units – 45 hours

This course provides a foundational and comprehensive overview of marketing philosophies, activities, practices, and processes. Additional topics include external and internal factors of marketing, business ethics, market segmentation, global marketing concepts, decision-making, consumer products, and customer value. A strategic marketing plan will be defined and developed.

MTC 1: Massage Therapy Clinic 1

2.0 units – 60 hours

Massage Therapy Clinic 1 challenges the student practitioners to integrate all aspects of their education during an intense internship. This phase of training offers students the excitement and responsibility of applying the knowledge & skills they have learned

to the treatment of clients from the community under direct supervision of their instructors. Graduates are offered their final preparation & transition for occupational certification into the professional Massage Therapy arena.

MTC 2: Massage Therapy Clinic II

2.0 units – 60 hours

Massage Therapy Clinic II is the training ground where student practitioners are challenged to integrate all aspects of their education during an intense internship. During this second phase of clinic, students will be required to apply deeper levels of their knowledge, assessment and technical skills and abilities during a series of different treatment sessions. They will treat, make recommendations, care for, and follow-up on their clinic clients presenting with various pathological conditions.

During Massage Therapy Clinic II, student clinicians are required to complete at least 25 one-hour, full-body treatments on no less than 4 individual clients and no more than 6, that are focused on the client's particular problems, conditions, complaints or pathologies and which are meant to be therapeutic and remedial. It is recommended that when working on a particular client with a specific complaint or pathology that the client be given 4-6 consecutive, weekly or otherwise properly spaced, treatments. This affords the best educational experience for the student clinician providing enhanced opportunities for supervision and follow-up. It also allows for continued dialog about client symptomology, and experience in adjusting treatment protocol to better promote healing and the overall well-being of the client. During these treatment series the student clinician can integrate additional techniques and treatment modalities learned in the second term including integrated deep tissue, sports massage, appropriate spa techniques, points, strokes, stretches, exercises and recommendations as instructed during supervision.

Supervisors discreetly monitor students throughout the progress of their treating and are available at any time for regular conferences regarding treatment preparations, recommendations, documentation of treatments, the use of specific points and techniques, the progress of the individual client, or difficult situations that may arise. Students keep accurate records, participate in administrative duties and receive feedback from their supervisors in addition to written evaluations completed by the clients at the end of client-pathology series.

At the end of the term students will submit a clinic term paper based on each of their clinic-pathology case studies during Massage Therapy Clinic II.

MTH 55: Elementary Algebra

3.0 units – 45 hours

This course provides fundamental algebraic concepts and operations on whole numbers and fractions, expressions, variables, solving and graphing linear equations and inequalities, signed numbers, exponents, monomials and polynomials. Emphasis is placed on operations involving radicals, solving quadratic equations, factoring, problem-solving, formulas, and functions.

MTH 90: Introductory Algebra

3.0 units – 45 hours

This course provides an introduction to the fundamentals and terminology of algebra, including real numbers, linear equations and inequalities, use of formulas, algebraic expressions and polynomials, systems of equations, graphing and quadratic equation basics. Practice assignments, homework assignments, quizzes, and tests will be completed through MyMathLab.

MTH 121: College Algebra – Part A

3.0 units – 45 hours

This course integrates technology with mathematics through the use of online learning resources, and covers the fundamentals and terminology of algebra. Topics include real numbers, complex numbers, order of operations, ratios/proportions, single and multiple step linear equations and inequalities, use of formulas, algebraic expressions, polynomials, systems of equations, graphing and quadratic equations. Students will utilize the metric and U.S. standard systems, and scientific notation. The fundamentals and terminology of Geometry, including geometric shapes and the Pythagorean Theorem, will be provided. This course offers hands-on applications that allow students to relate to and to apply concepts to their field of study.

MTH 122: College Algebra – Part B

3.0 units – 45 hours

This course integrates technology with mathematics through the use of online learning resources, and covers the fundamentals and terminology of algebra. Topics include use of formulas, algebraic expressions, polynomials, systems of equations, exponential and logarithmic expressions and quadratic equations. Students will utilize rational and radical expressions, conics and functions. This course offers hands-on applications that allow students to relate to and to apply concepts to their field of study.

NSC 1: Introduction to the Natural Sciences

3.0 units – 45 hours

This course presents an overview of the basic concepts of the natural sciences, emphasizing biology, chemistry, physical, earth and space science. These concepts are taught both as a technical foundation and from a historical perspective. The subject matter is integrated into lecture discussions covering the environment, ecology, and the relevance of natural science to human affairs. Subjects discussed include current and relevant social, scientific and economic issues. Special projects and activities may be required.

PAS 101: Anatomy and Physiology 1

2.0 units – 60 hours

This course focuses on the structure and function of the human body with emphasis on the HEENT, cardiovascular, pulmonary, gastrointestinal, and genitourinary systems. This course is designed to provide the student with an examination of the anatomical structure and function of the human body through virtual cadaver dissection and lecture.

PAS 102: Adult Medicine 1

8.0 units – 108 hours

The student is exposed to the systematic approach to the theory of clinical medicine including the pathophysiology of human disease, illness and injury. Topics include dermatology, ophthalmology,

otolaryngology, cardiovascular, respiratory, gastrointestinal, genitourinary, and health promotion disease prevention.

PAS 103: History and Physical Assessment 1

4.0 units – 116 hours

The student is exposed to clinical gathering skills, how to elicit and write a medical history, introduction to physical examination using the problem oriented medical record and patient simulation. Emphasis will be placed on a normal history and physical exam, which correlate with the organ systems, covered in the PAS 102 Adult Medical 1 course.

PAS 104: Diagnostic Studies 1

1.0 unit – 24 hours

The student will learn basic clinical skills applicable to interpretation and theory of body fluids/tissues analysis, electrocardiographs and pulmonary tests necessary to arrive at a preliminary diagnosis. Topics include clinical biochemistry; hematology; urinalysis; principles of electrocardiology; interpretation of 12 lead EKG and rhythm strips; basic principles and interpretation of arterial blood gases.

PAS 105: Pharmacology 1

2.0 units – 32 hours

The student is introduced to the basic principles of pharmacology including pharmacokinetics, drug actions, drug interaction and drug toxicities involved in the clinical use of drugs. Emphasis will be placed on the physiological and biochemical actions, absorption, distributions, metabolism, excretions and therapeutic use of drugs, which correlate with the organ systems and diseases covered in the PAS 102 Adult Medicine 1 course.

PAS 107: Pathophysiology 1

2.0 units – 60 hours

The course exposes the student to the pathophysiology of common disease processes in man for the following organ systems: integument, special senses, and pulmonary, cardiovascular, gastrointestinal, and genitourinary systems.

PAS 200: Anatomy and Physiology 2

2.0 units – 44 hours

This course focuses on the structure and function of the human body with emphasis on the endocrine, musculoskeletal, neurological, hematological, immunological, and reproductive systems. This course is designed to provide the student with an examination of the anatomical structure and function of the human body through virtual cadaver dissection and lecture.

PAS 201: Adult Medicine 2

8.0 units – 108 hours

The student is exposed to the systematic approach to the theory of clinical medicine including the pathophysiology of human disease, illness and injury. Topics include Endocrinology, Rheumatology, Orthopedics, Psychiatry, Neurology, Hematology, Oncology, and Infectious Diseases.

PAS 202: History and Physical Assessment 2

4.0 units – 124 hours

PAS 502: Clinical Rotation 2

14.0 units – 560 hours

Students are exposed to continuation of clinical experiences described in PAS 402. Students are assigned to four week clinical rotations in one of the following specialties: Family Medicine, Internal Medicine, Pediatrics, Women's Health, Emergency Medicine, Geriatrics, General Surgery and Psychiatry. Students are assigned patients for medical history, physical examination, diagnostic testing and patient education, management and, supportive involvement in major and minor surgical procedures. When applicable, students attend daily grand rounds, attending physician's seminars and additional continuing medical education. Students are required to return to campus once a week for lectures on Evidence-Based Medicine, give case presentations and testing.

PAS 602: Preceptorship

15.0 units – 576 hours

Students are assigned to a sixteen-week outpatient primary care clinical experience. Under supervision, students participate in patient care experiences including: taking a medical history, physical examination, diagnostic testing, patient education, management and referral. Students are required to return to campus once a week for additional didactic lectures, presentations and testing.

PHAR 21: Pharmacology

2.0 units – 30 hours

This course will study the drugs administered to treat pulmonary disease. It will also include other classifications of drugs that have an effect on cardiopulmonary status. Areas will include drug calculations, indications, classification, proper dosage, modes of administration, the physiological actions of pharmacokinetics, pharmacodynamics, and pharmacogenetics, side effects, precautions, hazards, therapeutic effects and patient monitoring.

PHIL 1C: Ethics

3.0 units – 45 hours

This course provides an introduction to the ethical problems and issues in modern society. Students will discuss current events related to ethical issues and participate in group discussions.

PHR 1: Pharmacy Science

3.0 units – 45 hours

This course provides a comprehensive overview of anatomy and physiology of the body systems emphasizing medical terminology as it relates to anatomy, physiology and pharmacology. This course includes an introduction to pharmaceutical dosage forms, medicinal chemistry, basic pharmacokinetics, and basic pharmacology with emphasis on the mechanism of action of medications, therapeutic classifications of the drugs, side-effects, and indications. **A grade of "C" or better is required for successful completion of the course.**

PHR 2: Pharmacy Law and Ethics

3.0 units – 45 hours

This course establishes an overview of the opportunities for the pharmacy technician as well as their duties and responsibilities. The laws governing pharmacy practice are emphasized, including prescription labeling requirements, hypodermics, and controlled substances. Current ethical issues will be thoroughly analyzed. This

course also gives a summary of HIPAA (Health Insurance Portability and Accountability Act) and its statutes and regulations. **A grade of "C" or better is required for successful completion of the course.**

PHR 3: Pharmacy Math and Computations

3.0 units – 45 hours

This course focuses on arithmetic calculations involving fractions, decimals, ratios, and percentages including both the metric and apothecary systems allowing for pharmaceutical applications required for usual dosage determination and preparation. **A grade of "C" or better is required for successful completion of the course.**

PHR 15: Pharmacy Science and Applications 2

5.0 units – 90 hours

This course emphasizes the theory of anatomy, physiology, pathophysiology, and related pharmacology of the urinary, circulatory, and respiratory systems. Lab applications involving drug information retrieval and prescription processing serve to reinforce theory of pharmacological effects and mechanisms of action of urinary, circulatory, and respiratory system agents. Preparation for CPR and First Aid certification is an integral component of this course. Also presented in this course are procedures for the generation and maintenance of accurate pharmacy records, insurance claims and the use of pharmacy reference materials. Computerized pharmacy systems are utilized. Emphasis is placed on the importance of diligence in documentation and related issues of potential liability. Employment Services Seminar in this course includes an overview of the role of the pharmacy technician in the professional environment, employment opportunities and National Certification.

PHR 20: Pharmacy Law and Ethics

3.0 units – 45 hours

This course presents an overview of the history of the pharmacy as well as the duties and responsibilities of a pharmacist and the State and Federal laws governing pharmacy practice, standards and regulations. This course includes HIPAA (Health Insurance Portability and Accountability Act) statutes, regulations, and preparation for certification. Current ethical issues in pharmacology will be discussed.

PHR 22: Pharmacy Records and Documentation

2.0 units – 45 hours

This course focuses on enhancing the skills to properly interpret, fill and label prescription orders. An emphasis of this course is to train students to properly maintain and document pharmacy records. Students will be introduced to the duties of inventory control in a pharmacy practice and explore legal parameters of dispensing medications. **A grade of "C" or better is required for successful completion of the course.**

PHR 30: Pharmacy Math and Calculations

3.0 units – 45 hours

This course covers mathematical calculations involving fractions, decimals, ratios, and percentages including both the metric and apothecary systems. This course will utilize these learned mathematical skills during pharmaceutical applications which are

pharmacy applications to enhance competency, efficiency, and camaraderie in the execution of pharmacy technician related tasks.

PHR 331: Anatomy, Physiology, and Pharmacology 2

3.0 units – 45 hours

This course emphasizes the theory of pharmacology, pathophysiology, and indications of the pharmacological drug classes. This course also includes the function and structure of the respiratory, digestive and endocrine systems identifying the disease states of these systems and the effects of therapeutic agents. **A grade of C or better is required to pass this course.**

PHR 371: Professional Development

2.0 units – 45 hours

Students will participate in professional development activities designed to offer insight into the behaviors and attitudes of the pharmacy technician. They will practice drug calculation skills, review federal and state regulations, drug information, and the use of pharmaceutical reference guides. Through this practice and review, students will prepare for the national certification exam. **A grade of C or better is required to pass this course.**

PHR 502: Pharmacy Clinical Experience/Externship

2.5 units – 120 hours

Students will participate in professional development activities and employment skills including interview techniques, professionalism, and job search strategies. The student will also prepare for the national exam, PTCB, by reviewing math skills, federal and state regulations, drug information, and the use of pharmaceutical reference guides. The final grade in this class includes projects and assignments related to professional development and employment skills. **Attainment of 35 wpm typing speed and negative drug screen test prior to extern assignment.**

PHR 503: Externship Seminar

0.5 units – 7.5 hours

Students will return to campus during their clinical externship to meet with an instructor for 1&1/2 hours per week, over a period of 5 weeks. In this workshop style course, students will assess their performance and application of acquired skills and knowledge. This course will also assure appropriate professional direction, reinforce knowledge base, and refresh skills as needed. The grade earned in this course is Pass/Fail based largely on attendance and consistent portrayal of professionalism. **Attainment of 35 wpm typing speed and negative drug screen test prior to extern assignment.**

PHY 100: Physics for Health Professions

4.0 units – 75 hours

This course provides an introduction to the physical world to students in health majors. Topics will include classroom theory and laboratory exploration of physical dynamics as they relate to health professions, with an emphasis in respiratory care. **A grade of "C" or better is required for successful completion of the course.**

PSY: 1: General Psychology

3.0 units – 45 hours

This course covers the study of human behavior, moral development, and psychological theory as it applies to the individual, group and community. Behavioral disorders and treatment; social perceptions; emotions and motivation, social influence and group processes are topics included in this course.

RF 100: Basic Refrigeration Theory and Applications

5.0 units – 90 hours

This course introduces, discusses, and practices the physical laws of matter, heat, transfer, gas laws and equations, pressure and temperature conversions, refrigerants and refrigerant recovery-recycle-reclaim methods and equipment. The refrigeration cycle, basic refrigerating systems and applications, codes, installation, safety practices, and EPA information are topics covered in this course.

RF 200: Intermediate Refrigeration 1

2.0 units – 45 hours

This course discusses and applies the principles of theory and fundamentals to problem analysis and diagnostics for residential, light commercial, and commercial refrigeration systems. Students will practice the basics of brazing.

RF 302: Intermediate Refrigeration 2

5.0 units – 90 hours

This course discusses and applies the principles of theory and fundamentals to problem analysis, diagnostics, and repair of small commercial refrigeration systems.

RF 400: Advanced Refrigeration

2.0 units – 45 hours

This course applies the principles of theory and fundamentals to problem analysis and diagnostics for light commercial refrigeration systems. Students will describe typical commercial refrigeration problems and the possible factors that make the problems occur. Both self-contained and remote refrigeration systems are analyzed under proper performance and typical running conditions and compared to systems with air-flow problems, undercharge conditions, overcharge conditions and box temperature controls (both pressure and temperature) along with system safety switches and flow controls. In addition, this course prepares students for the HVAC-R industry certification.

RN 10: Foundations of Nursing Theory

3.0 units – 45 hours

This course is an introduction of the foundation of nursing theory and concepts to promote and maintain safe, effective health care with culturally diverse patients. Students will integrate the professional nursing roles of clinician, teacher, leader, and advocate while demonstrating critical thinking and utilizing the nursing process in the promotion of health and the foundational care of client response to physiological and psychosocial health conditions of the adult client.

A grade of "C" or better is required for successful completion of the course.

RN 10L: Foundations of Nursing Clinical

3.0 units – 135 hours

completion of clinical assignments and performance objectives. **A grade of "C" or better is required for successful completion of the course.**

SIFE 100: Small Business Internship

2.0 units – 45 hours

This course provides practical experience (Working Education) in establishing and operating a small business. All aspects of a typical, small business operation are practiced: financing, staffing, pricing, purchasing, inventory control, advertising and promotion. Working Education (WE) is an integral part of the Students in Free Enterprise (SIFE) program.

SOC 1: Introduction to Sociology

3.0 units – 45 hours

This course includes a survey of social structure and theory, and their implications for individuals in a dynamic environment. Cultures, family, organizations, groups, ethnic and political influences and politics are topics covered.

SOC 125: Diversity in the Workplace

3.0 units – 45 hours

This course looks at the realities of working in a diverse environment. It also provides the tools that can be used by managers and employees to recognize and value differences. Students will examine stereotypical thinking, behaviors, attitudes, and how stereotypical thinking can impact the workplace, breakdown communication, and create obstacles to effective teamwork. Legal implications will also be studied.

SPC 1A: Introduction to Public Speaking

3.0 units – 45 hours

The theory and techniques of public speaking will be addressed in this course. Emphasis on the logical organization and composition of informative and persuasive speeches and practice in clearly stating and developing ideas will be covered. Techniques and tools for confidence building and reducing anxiety are also included in this course.

STC 399: Clinical Experience 1

5.0 units – 225 hours

Under direct supervision, at the assigned clinical site, the student will perform basic non-sterile and sterile surgical case management duties. Assignments may include the sterile processing department, preoperative holding area, surgery department, and the post-anesthesia care unit. The clinical sites are located within a 60-mile radius of the campus. **A grade of "C" or better is required for successful completion of the course.**

STC 400: Clinical Rotations 1

5.0 units – 225 hours

On the basis of instruction received in theory and laboratory classes the student will possess knowledge of CPR, aseptic technique, and basic instrumentation. During the three 5-week rotations of this class, the student will be equipped to participate, under direct supervision, in basic duties of surgical technology including: surgical scrub, gowning, gloving, opening of sterile supplies, and performing in the role of "second scrub." In addition to these duties, the student will be involved in room preparation and turnover

procurement of supplies for specific procedures, and will assist in positioning, preparation, and draping of the patient. When applicable the student will be assigned to pre-op holding and recovery areas. Central Service and workroom duties will be assigned by the preceptor according to facility policy. **A grade of "C" or better is required for successful completion of the course.**

STC 499: Clinical Experience 2

7.0 units – 315 hours

Under direct supervision, at the assigned clinical site, the student will independently perform non-sterile and sterile surgical case management duties. The student must scrub in on a minimum of 125 select surgical cases. The clinical sites are located within a 60-mile radius of the campus. **A grade of "C" or better is required for successful completion of the course.**

STC 500: Clinical Rotations 2-Externship

7.0 units – 315 hours

In addition to the duties described in STC 400 (Clinical Rotations 1), the student should now be able to scrub alone on selected cases, assist in circulating duties including urethral catheterization, sterile preparation of the surgical site, and electrocautery ground placement. **A grade of "C" or better is required for successful completion of the course.**

STL 100: Introduction to Surgical Technology Concepts Applications and Lab

1.0 unit – 30 hours

The hands-on applications of the surgical technology concepts and theory studied in STT 10 and STT 20, with emphasis on skills to be mastered on the skills completion transcript for Term 1.

STL 151: Surgical Case Management Lab

2.0 units – 45 hours

Basic skills related to the principles of asepsis, the practice of sterile technique, and the three phases of surgical case management are learned in the simulation lab. Corresponds with STT 110: Surgical Case Management. **A grade of "C" or better is required for successful completion of the course.**

STL 251: Basic Surgical Procedures Lab

2.0 units – 45 hours

Basic skills learned in STL: 151 Surgical Case Management are assimilated as mock surgical procedures are carried out in the simulation lab. **A grade of "C" or better is required for successful completion of the course.**

STL 300: Surgical Technology Concepts Application and Lab

1.0 unit – 30 hours

The hands-on applications of the concepts and theory studied in STT 30, with emphasis placed on skills to be mastered on the skills completion transcript for Term 2, as well as the practical review of skills mastered in STL 100.

STT 10: Introduction to Surgical Technology Concepts

4.0 units – 60 hours