

## CONSTRUCTION TECHNOLOGIES

### CONSTRUCTION TRADES ACADEMY PRE- APPRENTICESHIP PROGRAM (C-TAPP)

#### CERTIFICATE

This apprenticeship readiness program prepares students with the knowledge and skills necessary for employment in the construction industry.

This one-quarter program covers safety, hand and power tool use, math, carpentry trades, print and plan reading, and employment preparation.

Students entering the one-quarter Pre-Apprenticeship Construction Trades program will be required to complete entry and quarterly assessments while enrolled in the program. These assessments will not determine eligibility for the program.

**Physical Requirements:** Should be able to lift 40 pounds.

**Program Length:** This program is approximately one quarter long, depending on the time students need to satisfactorily complete all graduation requirements.

**Admission Dates:** Fall and spring quarters.

**Prerequisite(s):** None.

#### PROGRAM COURSE LIST

CONST 102*	Safety & Operating Certificates.....	3
CONST 104*	Trades Math & print reading for Const.....	5
CONST 106*	Basic Carpentry Skills.....	6
CONST 109*	Employment Preparation.....	4

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TOTAL CREDITS FOR COMPLETION ..... 18

**Note:** CONST 102-139 are articulated courses with high schools for dual enrollment.

## HUMAN SERVICES

### ASSOCIATE OF APPLIED TECHNOLOGY DEGREE

#### ASSOCIATE IN APPLIED SCIENCE – T DEGREE

Prepares students for a variety of entry and mid-level positions within the field of human services, which focuses on helping others gain the skills to help themselves.

Students will participate in both classroom instruction and a community-based internship experience with a local human services provider. Students who intern at these agencies serve a variety of populations, including the mentally ill, the developmentally disabled, seniors, persons living with HIV/AIDS, homeless, incarcerated adults, at-risk youth, pregnant and parenting teens, foster families, persons with substance abuse issues, and numerous other specialty areas. Students are responsible for choosing and securing their own internship placement and are primarily eligible for employment in the area in which they choose to complete their internship experience. Internship site choice requires instructor approval.

#### Student Learning Outcomes:

Upon successful completion of the Human Services degree, students will:

- Adhere to the ethical guidelines established by the NOHS, ACA, APA, and NASW, as well as adhere to federal, state, and local laws.
- Utilize critical thinking skills to effectively assess and apply skills & strategies needed to facilitate community resources and support systems to meet the needs of the client.
- Identify and explain population-specific needs and strengths from a multicultural competency standpoint.
- Demonstrate knowledge and sensitivity to diversity when interacting with individuals and families by adapting their helping approach to the needs of the client's culture and by being a culturally competent practitioner with in the community where they practice.
- Facilitate the process of referral to support systems and community resources to meet the needs of the client.
- Demonstrate knowledge of the basic concepts, theories, and strategies used in human services delivery systems.
- Use interpersonal and written communication skills to effectively communicate with peers, faculty, clients, and community agencies.
- Utilize information management skills to write case notes and manage confidential documents in accordance with federal and state guidelines.
- Maintain professional behavior by adherence to personal boundaries, professional attitude, leadership style, project management, speech & attire.
- Proficiently use technology as it applies to the human services field.
- Develop respectful professional relationships through proper utilization of empathetic and objective therapeutic communication skills.
- Resolve conflict and crisis situations in a professional manner.
- Identify and practice within the job-specific scope of practice for human services professionals.
- Identify and implement service delivery functions such as outreach, engagement, assessment, planning, accessing resources, referral, coordination, advocacy, process methods, interventions and modalities.

For an AAT or AAS-T degree, students may complete one of the following specialty options: 1) Human Services Generalist or 2) Human Services Chemical Dependency. The Human Services Generalist option can be completed in as little as six quarters, while the Human Services Chemical Dependency option will require a minimum of eight quarters, plus prerequisites and general education courses. Program completion

generally takes 1.5-2 years to satisfy all degree requirements. Students receiving a "C-" or below in a human services class must repeat the class in order to satisfy the human services program requirements for graduation.

In addition to the program course requirements, students must also complete the general education requirements for the degree they seek to obtain. Students pursuing an AAT or AAS-T degree must complete all college degree requirements prior to graduation. This includes courses that meet the capstone-project, diversity, and computer-literacy requirements.

The different requirements for each degree are listed below.

#### AAT Degree General Education Requirements (18 credits):

- ENGL& 101 English Composition
- CMST& 220 Public Speaking
- MAT 103 Business Mathematics
- PSYC& 100<sup>DIV</sup> General Psychology
- SOC& 101<sup>DIV</sup> Introduction to Sociology
- COLL 102 College Success for All

#### AAS-T Degree General Education Requirements (33 credits):

All AAS-T degrees must have a minimum of 20 credits of transferable general education. These credits replace the academic courses required for the AAT degree. Required credits include:

- 5 credits in communication: ENGL& 101
- 5 credits in quantitative reasoning: MATH& 146
- 10 credits in a social science that meets the diversity requirement:
- PSYC& 100<sup>DIV</sup> and SOC& 101<sup>DIV</sup> 5 credits in social science, humanities, or science; choose one from the following: PSYC& 100<sup>DIV</sup>, PSYC& 200, PSY 210, PSYC& 220, SOC& 101<sup>DIV</sup>, ART& 100, MUSC& 105, ASL& 121, BIOL& 160, BIOL& 175, BIOL& 241, BIOL& 242, CHEM& 110, CHEM& 121, CHEM& 131, GEOL& 110, PHYS& 114, ECON 101, ECON& 201 or ECON& 202
- 5 credits in CMST& 220 Public Speaking
- 3 credits in College Success: COLL 102

**Employability Requirements:** A background check will be conducted in the first quarter of the program to screen for prior convictions prior to internship placement, for advising purposes. If pursuing the CD certificate, students will apply directly to the Department of Health for state certification. Persons with some types of criminal convictions may not be eligible for employment at the discretion of the individual employer.

**Program Length:** The human services core classes take six-to-eight quarters to complete, depending on the degree option. The length for the completion of the associate degree may vary depending on the time students need to satisfactorily complete all prerequisites, electives, and general academic classes to meet degree requirements, and may vary between one-and-a-half and two years.

**Admission Dates:** Fall and spring quarters.

**Prerequisite(s):** Prospective students must attend a mandatory orientation/advising meeting with the instructors prior to being admitted. Students must be high school graduates or have passed a high school equivalency test. Students must be over the age of 18 and agree to the background check in the first quarter. Successful completion or transfer of the following courses is required before enrollment in human services courses: ENGL& 101, PSYC& 100, COLL 102, and any 100-level Computer Applications class of 3 credits or more.

\*Students must have an internship site secured no later than the end of the first week of the quarter for the Internship I, II, and III courses. Students are advised that a "No Record On File" report related to crimes against persons is generally required by agencies offering internship or employment. Students understand that some internship sites may not be

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available due to certain records. A non-refundable fee is charged to each student for the background check. Students who do not meet the internship site requirement within the specified timeline will be dropped from the course.

**PROGRAM COURSE LIST**

HS 115	Therapeutic Communication Skills .....	5
HS 120	Soft Skills for the Human Services Professional .....	3
HS 125	HIV/AIDS/Blood-borne Pathogens & Brief Risk Intervention for the Chemically Dependent .....	1
HS 127	Introduction to Human Services .....	5
HS 152	Internship I .....	3
HS 222	Applied Counseling for the Human Services Professional .....	5
HS 225	Survey of Community Resources .....	3
HS 226	Mental Health Assessment & Evaluation .....	5
HS 227	Behavioral Health & Wellness .....	5
HS 230	Case Management .....	5
HS 234 <sup>DNV</sup>	Culturally Competent Practice .....	5
HS 237	Law & Ethics for Human Services .....	3
HS 241	Dynamics of Violence .....	5
HS 245	Internship II .....	3

**Option 1: Human Services Generalist:**

HS 215	Human Development for the Human Services Professional .....	5
HS 240	Survey of Addiction .....	5
HS 246	Group Process .....	3
HS 255	Internship III .....	3
Human Services	Electives (See list below) .....	8

**TECHNICAL COURSE REQUIREMENTS FOR HS GENERALIST ..... 80**

**Option 2: Human Services Chemical Dependency**

PSYC& 220	Abnormal Psychology .....	5
PSYC& 200	Lifespan Psychology .....	5
HS 255	Internship III .....	3
HSCD 134	Introduction to Addictions .....	5
HSCD 150	The Neuro-Pharmacology of Addiction .....	5
HSCD 155	Chemical Dependency & Counseling I: Individuals & Groups .....	5
HSCD 180	Law & Ethics for Chemical Dependency Professionals .....	5
HSCD 215	Case Management & Recordkeeping for the CDP .....	5
HSCD 227	Chemical Dependency Assessment & Evaluation .....	3
HSCD 229	Suicide Prevention for the CDP .....	1
HSCD 235	Chemical Dependency Practicum .....	3
HSCD 249	Chemical Dependency & Counseling II: Adolescents & Families .....	5
HSCD 251	Relapse Prevention .....	3

**TECHNICAL COURSE REQUIREMENTS  
OR HS CHEMICAL DEPENDENCY ..... 100**

**HUMAN SERVICES AAT GENERAL EDUCATION REQUIREMENTS**

Technical Course Requirements.....	80-100
Computer Literacy Requirement .....	3
Human Services AAT General Education Requirements (See list above) .....	28

**TOTAL CREDITS FOR AAT COMPLETION ..... 111-131**

**HUMAN SERVICES AAS-T GENERAL EDUCATION REQUIREMENTS**

Technical Course Requirements.....	80-100
Computer Literacy Requirement .....	3
Human Services AAS-T General Education Requirements (See list above)....	33

**TOTAL CREDITS FOR AAS-T COMPLETION ..... 116-136**

**Approved Human Services Electives (8 Credits Needed)**

PSYC& 200	Lifespan Psychology .....	5
PSYC& 220	Abnormal Psychology .....	5
ASL& 121	American Sign Language I .....	5
HS 238	Special Projects .....	3-5
HS 239	Selected Topics .....	3-5
SVL 101	Service Learning .....	3
LEADR	Any LEADR Course(s) .....	1-6
HS Biology	Any Biology Course .....	5
HS HSCD	Any HSCD Course .....	5

## SURGICAL TECHNOLOGY

### ASSOCIATE OF APPLIED TECHNOLOGY DEGREE

Prepares students to work as part of a team of surgeons and registered nurses in the operating room. Successful graduates of this program are educated in surgical technology under the guidelines of the Association of Surgical Technologists.

The structured curriculum includes basic sciences, patient care, surgical procedures, and human anatomy combined with clinical rotations in area health care facilities. Classroom instruction, labs, and clinical internships prepare students to assume the role of a perioperative team member in a variety of health care delivery settings. Included in this program are academic courses in communication, quantitative reasoning, and social sciences that provide knowledge and abilities that enhance personal development and serve as a foundation for technical skills.

Students are required to carry personal health/medical insurance throughout their clinical rotations. Quarterly-based insurance for students may be purchased; further information is available through the Advising and Counseling Office.

No student will be allowed at a clinical site without proof of insurance.

#### Student Learning Outcomes:

Upon successful completion of the Surgical Technology degree, students will:

- Correlate the knowledge of anatomy, physiology, pathophysiology, and microbiology to their role as a surgical technologist.
  - Demonstrate a safe level of practice and knowledge in their role as a surgical technologist.
  - Acquire an understanding of the ethical, legal, moral, and medical values related to the patient and the operating room team during the perioperative experience.
  - Correlate the elements, action, and use of medications and anesthetic agents used during the perioperative experience.
  - Demonstrate safe practice techniques in regards to perioperative routines, patient transportation, positioning, and emergency procedures.
  - Demonstrate and integrate principles of surgical asepsis as part of the perioperative experience.
  - Apply knowledge and skills as a professional surgical technologist to address the biopsychosocial needs of the surgical patient.
  - Perform as a competent entry-level surgical technologist in the cognitive, psychomotor, and effective learning domains.
  - Value the professional attributes of the surgical technologist.
- Program Accreditation: The Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) has granted accreditation to the Surgical Technology program upon the recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA).

Commission on Accreditation of Allied Health Education Programs  
1361 Park Street, Clearwater, FL 33756  
727-210-2350 [www.caahep.org](http://www.caahep.org)

**Physical Activity Requirements:** Students cannot require use of assistive devices. This occupation requires the ability to stand, sit, and walk for extended periods of time and the ability to lift and hold 50 pounds. Students must be able to meet these physical requirements in order to complete lab requirements, be assigned to a clinical rotation and get a job in this field.

**Employability Requirements:** Most employers prefer national certification. Seven hours of AIDS education and training as required under WAC 246-939. A comprehensive background check will be conducted to screen for prior convictions prior to state registration.

Persons with some types of criminal convictions may not be eligible for employment.

**Program Length:** This program is six quarters long, depending on the time students need to satisfactorily complete all graduation requirements.

**Admission Dates:** Fall and spring quarters

**Prerequisite(s):** Students pursuing the AAT degree must have a high school diploma or high school equivalency diploma, per the governing body for surgical technology, AST. In order to participate in the clinical aspect of the program, students must pass multiple background checks. A non-refundable fee is charged to each student for the background check. Students must have current American Heart Association CPR for the Healthcare Provider certification and immunizations or laboratory verification of immune status. This includes, but is not limited to, Hepatitis B series, Tetanus/Diphtheria, Tuberculosis Test, Measles/Mumps/Rubella, and Varicella, as required by contracts with clinical facilities and CDC recommendations. Proof of immunizations and CPR should be completed by the first day of class of the third quarter of the SURG courses. No student will be allowed at a clinical site without completion of immunizations. A physical is required for each student prior to clinical rotation. Must be at least 18 years of age by the time clinical experience starts, usually in September and April.

This program requires that the following general education courses be completed prior to beginning the first quarter of SURG courses. These general education courses are BIOL& 241, CAH 102, COLL 102, ENGL& 101. Students must maintain a "B" or better in all general education and Core Allied Health courses.

Students must receive a "C" or better in all technical courses to satisfy graduation requirements. Students pursuing an AAT or AAS-T degree must complete all college degree requirements prior to graduation. This includes courses that meet the requirements for diversity, computer literacy, and the capstone project.

#### PROGRAM COURSE LIST

BIOL& 241	Human Anatomy & Physiology I	5
BIOL& 242	Human Anatomy & Physiology II	5
CAH 102	Medical Terminology I	5
CAH 105 <sup>CA</sup>	Computer Applications	5
ENGL& 101	English Composition I	5
MAT 108	Math for Health Occupations	5
SOC& 101 <sup>DIV</sup>	Introduction to Sociology	5
COLL 102	College Success for All	3
SURG 110	Introduction to Surgical Lab	3
SURG 115	Introduction to Surgical Environment	2
SURG 120	Care of Surgical Patient I	2
SURG 128	Pharmacology & Anesthesia	3
SURG 145	Surgical Lab I	5
SURG 148	Operating Room Theory I	5
SURG 150	Surgical Environment	2
SURG 152	Care of the Surgical Patient II	2
SURG 153	Surgical Lab II	5
SURG 154	Operating Room Theory II	5
SURG 160	Care of the Surgical Patient III	2
SURG 201	Operating Room Theory III	5
SURG 205	Clinical Preparation	2
SURG 208	Microbiology	3
SURG 212	Surgical Lab III	5
SURG 215	Clinical Applications I	5
SURG 220	Clinical Applications II	5
SURG 225	Clinical Applications III	5
SURG 230	Clinical Applications IV	5
SURG 235	Seminar I	3
SURG 237	Certification and Test Preparation I	2
SURG 240 <sup>CAP</sup>	Seminar II	3
SURG 242	Certification and Test Preparation II	2
<b>TOTAL CREDITS FOR AAT COMPLETION</b>		<b>119</b>

## UPHOLSTERY FUNDAMENTALS

### CERTIFICATE

This two quarter program is designed to provide graduates with a foundation in measuring, cutting, and sewing using industrial sewing machine equipment. Students will also learn how to set up an efficient workstation for upholstery work and the basics of sewing machine maintenance. Students will continue to develop basic upholstery skills, speed, and accuracy in the second quarter while working on projects such as furniture pillows and automotive seat covers. This certificate is a prerequisite to the Automotive Upholstery Certificate and Furniture Upholstery Certificate.

**Program Length:** This program is approximately two quarters long, depending on the time students need to satisfactorily complete all graduation requirements. Must have required tools and textbooks.

**Admission Dates:** Fall and Spring quarters.

**Prerequisite(s):** None.

#### PROGRAM COURSE LIST

UPH 102	Introduction to Upholstery I .....	5
UPH 104	Introduction to Upholstery II.....	5
UPH 106	Basic Sewing I .....	5
UPH 108	Basic Sewing II.....	5
UPH 110	Intermediate Sewing I.....	5
UPH 112	Intermediate Sewing II .....	5
UPH 116	Advanced Sewing I.....	5
COLL 102	College Success for All .....	3
SURG 242	Certification and Test Preparation II .....	2

TOTAL CREDITS FOR COMPLETION ..... 43

## AUTOMOTIVE UPHOLSTERY

### CERTIFICATE

This three quarter program builds on the skills learned in the Upholstery Fundamentals Certificate and provides students with lessons and project based learning specific to the automotive upholstery industry. Students will learn how to remove and re-upholster specific automotive interior elements such as doors and quarter panels, bucket seats, bench seats, headliners, carpets, and convertible tops.

**Program Length:** This program is approximately three quarters long, depending on the time students need to satisfactorily complete all graduation requirements. Must have required tools and textbooks.

**Admission Dates:** Fall and Spring quarters.

**Prerequisite(s):** Successful completion of Upholstery Fundamentals Certificate or instructor permission.

#### PROGRAM COURSE LIST

UPH 118	Doors and Quarter Panels I.....	5
UPH 120	Doors and Quarter Panels II.....	5
UPH 122	Bucket Seats I.....	5
UPH 124	Bucket Seats II.....	5
UPH 126	Bench Seats I.....	5
UPH 128	Bench Seats II .....	5
UPH 132	Headliners.....	5
UPH 136	Carpets.....	5
UPH 140	Convertible Tops.....	5
UPH 200	Special Projects .....	5
COLL 102	College Success for All .....	3

TOTAL CREDITS FOR COMPLETION ..... 43

## FURNITURE UPHOLSTERY

### CERTIFICATE

This three quarter program builds on the skills learned in the Upholstery Fundamentals Certificate and provides students with lessons and project based learning specific to the furniture upholstery industry. Students will learn how to remove and re-upholster specific furniture pieces such as Louis chairs, wing back chairs, and sofas. Additionally, students will learn specific techniques used in furniture upholstery such as diamond tufting, tying springs, and design and construction of a headboard.

**Program Length:** This program is approximately three quarters long, depending on the time students need to satisfactorily complete all graduation requirements. Must have required tools and textbooks.

**Admission Dates:** Fall and Spring quarters.

**Prerequisite(s):** Successful completion of Upholstery Fundamentals Certificate or instructor permission.

#### PROGRAM COURSE LIST

UPH 145	The Art of Tying Springs.....	3
UPH 150	Upholstering a Louis Chair I.....	4
UPH 155	Upholstering a Louis Chair II.....	4
UPH 160	Upholstering a Wing Back Chair I.....	4
UPH 165	Upholstering a Wing Back Chair II.....	4
UPH 170	Upholstering a Sofa I .....	4
UPH 175	Upholstering a Sofa II.....	4
UPH 180	Diamond Tufting .....	4
UPH 185	Pillow Backs .....	5
UPH 190	Design and Construction of a Headboard .....	5
COLL 102	College Success for All .....	3

TOTAL CREDITS FOR COMPLETION ..... 44

## SURGICAL TECHNOLOGY

### **SURG 110** INTRODUCTION TO SURGICAL LAB 3CR

Covers proper attire, hand hygiene, patient vitals, urinary catheterization, room set up, handling of sterile supplies, gowning and gloving, and introduction to surgical instrumentation.

**Prerequisite(s):** Successful completion of ENGL& 101, CAH 102, BIOL& 241, COLL 102.

### **SURG 115** INTRODUCTION TO THE SURGICAL ENVIRONMENT 2CR

Explores the basics of surgical instrumentation, use of energy sources and guidelines to safe practices surrounding them, introduction to specimen handling, principals of aseptic technique, processes related to maintaining asepsis and hazards of the surgical environment.

**Prerequisite(s):** Successful completion of ENGL& 101, CAH 102, BIOL& 241, COLL 102.

### **SURG 120** CARE OF THE SURGICAL PATIENT I 2CR

Covers patient vitals and diagnostics; methods of patient identification, transfer, transport and positioning of surgical patients; theories of skin prep and draping; case planning and intraoperative routines.

**Prerequisite(s):** Successful completion of ENGL& 101, CAH 102, BIOL& 241, COLL 102.

### **SURG 128** PHARMACOLOGY & ANESTHESIA 3CR

Introduces the student to basic surgically related pharmacologic and anesthetic principles, including drug classification, proper medication labeling and handling, aseptic medication preparation and usage, principles of anesthesia administration and monitoring, including complications and interventions.

**Prerequisite(s):** Successful completion of SURG 150, SURG 152, SURG 148, SURG 145, MAT 108 or Higher (MAT&)

### **SURG 145** SURGICAL LAB I 5CR

Explores the operative environment, aseptic principles and practices, methodologies of opening sterile packages, preparation of the sterile field, positioning and prepping, scrub role, assistant circulator role, instruments, supplies, equipment, patient positions, incisions, draping, procedural steps and care of specimens, surgical counts, instrument handling, medication handling, suture handling, loading and unloading of blades, backtable and mayo setups, room disinfection, turnover and termination.

**Prerequisite(s):** Successful completion of SURG110(Intro to Surg Lab), SURG 115(Intro to the Surg Enviro). SURG120(Care of the Surg Pt I), BIOL& 242, CAH 105

### **SURG 148** OPERATING ROOM THEORY I 5CR

Explores the OR environment, instrumentation, equipment, supplies, patient positions, specimen care, postoperative considerations, abdominal incisions, surgical anatomy and procedures in general, laparoscopic, ob-gyn, ophthalmic, and genitourinary surgeries.

**Prerequisite(s):** Successful completion of SURG 110, SURG 115, SURG 120, BIOL& 242, CAH 105.

### **SURG 150** SURGICAL ENVIRONMENT 2CR

Explore the history of surgical technology, career opportunities, communication skills, and the effects of teamwork, law, ethics, documentation, and the health care facility environment.

**Prerequisite(s):** Successful completion of SURG 110, SURG 115, SURG 120, BIOL& 242, CAH 105.

### **SURG 152** CARE OF THE SURGICAL PATIENT II 2CR

Covers the physical, and biophysiological needs of the patient and religious and cultural influences. Methods of handling death and dying, and the ethical issues surrounding death and dying. Explores the processes related to management and care of the surgical wound, including hemostasis, sutures, dressings, drains and application of various types of dressings.

**Prerequisite(s):** Successful completion of SURG 110, SURG 115, SURG 120, BIOL& 242, CAH 105.

### **SURG 153** SURGICAL LAB II 5CR

Covers intermediate level skills for the OR environment, aseptic principles and practices, scrubbing, gowning, gloving, preparation of the sterile field, disinfection and sterilization, scrub role, assistant circulator role, instrumentation, supplies, equipment, patient positions, draping, incisions, procedural steps, and care of specimens as appropriate for the second quarter

**Prerequisite(s):** Successful completion of SURG150 (Operating Room Setting), SURG152(Care of the Surgical Patient II), SURG148(Operating Room Theory I), SURG 145, MAT 108 or Higher (MAT& needed for AAST)

### **SURG 154** OPERATING ROOM THEORY II 5CR

Continued exploration of surgical specialties to include otorhinolaryngologic, oral/maxillofacial, plastic/reconstructive, and orthopedic procedures along with surgical anatomy, instrumentation, equipment, supplies, patient positions, specimen care and postoperative considerations.

**Prerequisite(s):** Successful completion of SURG 150, SURG 152, SURG 148, SURG 145, MAT 108 or Higher (MAT&)

### **SURG 160** CARE OF THE SURGICAL PATIENT III 2CR

Explores disaster readiness, sterility, disinfection, steps for reprocessing instruments, decontamination of surgical environment, and the use of technology within the surgical environment.

**Prerequisite(s):** Successful completion of SURG 150, SURG 152, SURG 148, SURG 145, MAT 108 or Higher (MAT&)

### **SURG 201** OPERATING ROOM THEORY III 5CR

Assesses the anatomy, physiology, and path physiology of the surgical specialties. Classroom activities will analyze procedures and anatomy related to pediatric, thoracic/pulmonary, cardiac, peripheral vascular neurosurgical and trauma procedures.

**Prerequisite(s):** Successful completion of SURG154, SURG 160, SURG 128, SURG 153, SOC 101

### **SURG 205** CLINICAL PREPARTATION 2CR

Students will earn HIPPA and Blood Borne Pathogens certificates, and complete all paperwork related to attending clinical rotation.

**Prerequisite(s):** Successful completion of SURG 154, SURG 160, SURG 128, SURG 153, SOC 101

**SURG 208****SURGICAL TECHNOLOGY** 3CR

Explores the relationship of microbiology and surgical practice, types and identification process of various microbes, cell structure of microbes, and disease process of microbes

**Prerequisite(s):** Successful completion of SURG154, SURG 160, SURG 128, SURG 153, SOC 101

**SURG 212****SURGICAL LAB III** 5CR

Preclinical level lab for practice of aseptic principles and practices, scrubbing, gowning, gloving, and preparation of the sterile field. Will practice draping patient, placing multiple types of drains and patient positioning. Demonstrate critical thinking skills and prioritizing the situations and corrections of contaminations. The course will teach care of specimens, and learn the roles of assistant circulator.

**Prerequisite(s):** Successful completion of SURG154, SURG160, SURG128, SURG 153, SOC 101

**SURG 215****CLINICAL APPLICATIONS I** 5CR

Provides the framework for students to receive experience in the operating room. Through one-on-one training in a perioperative setting, students will develop the professional attitude, behavior and skills to reinforce their role as a member of the perioperative team.

**Prerequisite(s):** Successful completion of SURG 212, SURG 201, SURG 205 and SURG 208.

**SURG 220****CLINICAL APPLICATIONS II** 5CR

See Clinical Applications.

**Prerequisite(s):** Successful completion of SURG 212, SURG 201, SURG 205 and SURG 208.

**SURG 225****CLINICAL APPLICATIONS III** 5CR

See Clinical Applications.

**Prerequisite(s):** Successful completion of SURG 215, SURG 220 SURG 235 and SURG 237.

**SURG 230****CLINICAL APPLICATIONS IV** 5CR

See Clinical Applications.

**Prerequisite(s):** Successful completion of SURG 215, SURG 220 SURG 235 and SURG 237.

**SURG 235****SEMINAR I** 3CR

Classroom presentations on health and wellness and death and dying. Classroom preparation for the NBSTSA Certification Exam.

**Prerequisite(s):** Successful completion of SURG 212, SURG 201, SURG 205 and SURG 208.

**SURG 237****CERTIFICATION TEST PREPARATION I** 2CR

Prepares students to take the NBSTSA National Certification Test.

**Prerequisite(s):** Successful completion of SURG 212, SURG 201, SURG 205 and SURG 208.

**SURG 240<sup>CAP</sup>****SEMINAR II** 3CR

Classroom presentations of employability skills, preoperative routines, and transportation. Classroom preparation for the NBSTSA Certification Exam.

**Prerequisite(s):** Successful completion of SURG 215, SURG 220 SURG 235 and SURG 237..

**SURG 242****CERTIFICATION TEST PREPARATION II** 2CR

Prepares students to take the NBSTSA National Certification Test. Students will participate in the National Certification Test.

**Prerequisite(s):** Successful completion of SURG 201, SURG 215, SURG 220 SURG 235 and SURG 237

## UPHOLSTERY

### UPH 102 INTRODUCTION TO UPHOLSTERY I 5CR

Introduces tools and materials commonly used in the upholstery trade. Provides hands-on experience in proper use of various hand and power tools and their maintenance and storage. Students will learn how to set up an efficient work station.

**Prerequisite(s):** Instructor permission.

### UPH 104 INTRODUCTION TO UPHOLSTERY II 5CR

Introduces types of foam and fabrics along with their characteristics and uses in upholstery. Equips students with skills needed to design patterns, measure and calculate materials needed for an upholstery project. Continuation of skills learned in Introduction to Upholstery I.

**Prerequisite(s):** Instructor permission.

### UPH 106 BASIC SEWING I 5CR

Covers the setup and threading of commercial upholstery sewing machines. Provides a foundation for students to learn to sew on commercial machines with control and accuracy.

**Prerequisite(s):** Instructor permission.

### UPH 108 BASIC SEWING II 5CR

Focuses on building a foundation of sewing skills. Provides instruction introduction to troubleshooting and maintenance of commercial sewing machines. Introduces students to various machine stitches and their uses. Continuation of skills learned in Basic Sewing I.

**Prerequisite(s):** Instructor permission.

### UPH 110 INTERMEDIATE SEWING I 5CR

Develop sewing skills, speed and accuracy by constructing cushions, pillows and automotive inserts.

**Prerequisite(s):** Successful completion of UPH 102, UPH 104, UPH 106 and UPH 108, or instructor permission.

### UPH 112 INTERMEDIATE SEWING II 5CR

Continuation of sewing skills learned in Intermediate Sewing I. Increase speed and accuracy by constructing cushions, pillows and automotive inserts.

**Prerequisite(s):** Successful completion of UPH 102, UPH 104, UPH 106 and UPH 108, or instructor permission.

### UPH 114 ADVANCED SEWING I 5CR

Provides students the opportunity to develop advanced sewing skills by constructing complex seats and custom designs.

**Prerequisite(s):** Successful completion of UPH 102, UPH 104, UPH 106 and UPH 108, or instructor permission.

### UPH 116 ADVANCED SEWING II 5CR

Continuation of Advanced Sewing I to develop students' advanced sewing skills. Provides practical application of sewing skills on a 2015 Corvette seat frame or similar. Students will design a pattern, cut, sew, and fit a new upholstery cover for a seat back.

**Prerequisite(s):** Successful completion of UPH 102, UPH 104, UPH 106 and UPH 108, or instructor permission.

### UPH 118 DOORS AND QUARTER PANELS I 4CR

Provides students the opportunity to apply practical design, sewing and upholstery skills to automotive doors and quarter panels. Students will learn to remove existing panels, design replacement pieces and prepare automotive interior for upholstery.

**Prerequisite(s):** Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

### UPH 120 DOORS AND QUARTER PANELS II 4CR

Continuation of development of skills learned in Doors and Quarter Panels I. Instruction also includes reinstallation of upholstered vehicle door and quarter panels.

**Prerequisite(s):** Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

### UPH 122 BUCKET SEATS I 4CR

Covers the removal of an automotive bucket seat as well as pattern and fabrication of a replacement seat cover and headrest covers. Provides students with the opportunity to apply knowledge and skills learned in design, measurement and sewing.

**Prerequisite(s):** Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

### UPH 124 BUCKET SEATS II 4CR

Covers the removal of an automotive bucket seat as well as preparation and fitting of upholstery covers for bucket seats and head rests. Students will also learn to reinstall automotive bucket seats and headrests after reupholstering. Continuation of skills learned in Bucket Seats I.

**Prerequisite(s):** Successful completion of Upholstery Fundamentals Certificate, or instructor permission

### UPH 126 BENCH SEATS I 4CR

Covers the removal of an automotive bench seat as well as pattern and fabrication of a replacement seat cover and headrest covers. Provides students with the opportunity to apply knowledge and skills learned in design, measurement and sewing.

**Prerequisite(s):** Successful completion of UPH 118, UPH 120, UPH 122 and UPH 124, or instructor permission.

### UPH 128 BENCH SEATS II 4CR

Covers various sewing techniques for automotive bench seats as well as preparation and fitting of upholstery covers for bench seats and head rests. Students will also learn how to reinstall automotive bench seats and headrests after reupholstering. Continuation of skills learned in Bench Seats I.

**Prerequisite(s):** Successful completion of UPH 118, UPH 120, UPH 122 and UPH 124, or instructor permission.

### UPH 132 HEADLINERS 4CR

Introduces fabrication of bow headliners, upholstery of hard shell headliners and installation and creation of matching sun visors.

**Prerequisite(s):** Successful completion of UPH 118, UPH 120, UPH 122 and UPH 124, or instructor permission.

### UPH 136 CARPETS 4CR

Covers removal of automotive carpet for replacement, preparation of the trunk and other interior areas, cutting and sewing new carpet and reinstallation of an automotive carpet.

**Prerequisite(s):** Successful completion of UPH 126, UPH 128 and UPH 132, or instructor permission.



**UPH 140**  
CONVERTIBLE TOPS 4CR

Students will learn how to disassemble a convertible top, fabricate top pads, prepare care and bows for a new top, and install a new top.

**Prerequisite(s):** Successful completion of UPH 126, UPH 128 and UPH 132, or instructor permission.

**UPH 200**  
SPECIAL PROJECTS 4CR

Students will develop skills in advanced and/or specialized techniques. Students will have the opportunity to apply knowledge to projects of personal interest as assigned and/or job shadowing. Learning outcomes will be written by the instructor and student on a case-by-case basis.

**Prerequisite(s):** Successful completion of UPH 126, UPH 128 and UPH 132.

**UPH 145**  
THE ART OF TYING SPRINGS 3CR

Students will learn how to install springs using eight-way tie and adjust to proper height.

**Prerequisite(s):** Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

**UPH 150**  
UPHOLSTERING A LOUIS-TYPE  
CHAIR I 4CR

Covers professional upholstery techniques and skills needed to upholster a Louis-type chair, overview of materials and tools of furniture upholstery and best practices.

**Prerequisite(s):** Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

**UPH 155**  
UPHOLSTERING A LOUIS-TYPE  
CHAIR II 4CR

Continuation of Upholstering a Louis-type Chair I, building on skills learned in UPH 150, including instruction on designing and sewing sofa skirts and furniture arm covers.

**Prerequisite(s):** Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

**UPH 160**  
UPHOLSTERING A WINGBACK  
CHAIR I 4CR

Introduces skills needed to upholster a wingback chair. Provides overview of professional upholstery techniques, materials and tools and best practices.

**Prerequisite(s):** Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

**UPH 165**  
UPHOLSTERING A WINGBACK  
CHAIR II 4CR

Continues building on skills learned in Upholstering a Wingback Chair I course.

**Prerequisite(s):** Successful completion of UPH 145, UPH 150, UPH 155 and UPH 160, or instructor permission.

**UPH 170**  
UPHOLSTERING A SOFA I 4CR

Covers professional upholstery techniques and skills needed to upholster a sofa, overview of materials and tools of furniture upholstery and best practices.

**Prerequisite(s):** Successful completion of UPH 145, UPH 150, UPH 155 and UPH 160, or instructor permission.

**UPH 175**  
UPHOLSTERING A SOFA II 4CR

Continues building on skills learned in Upholstering a Sofa I course, includes instruction on designing and sewing sofa skirts and furniture arm covers.

**Prerequisite(s):** Successful completion of UPH 145, UPH 150, UPH 155 and UPH 160, or instructor permission.

**UPH 180**  
DIAMOND TUFTING 4CR

Create a diamond tufted sample board or furniture piece.

**Prerequisite(s):** Successful completion of UPH 165, UPH 170 and UPH 175, or instructor permission.

**UPH 185**  
PILLOW BACKS 5CR

Fabricate a pillow back using essential patterning and sewing skills.

**Prerequisite(s):** Successful completion of UPH 165, UPH 170 and UPH 175, or instructor permission.

**UPH 190**  
DESIGN AND CONSTRUCTION  
OF A HEADBOARD 5CR

Build a headboard using essential skills, professional upholstery techniques, tools and materials and best practices.

**Prerequisite(s):** Successful completion of UPH 165, UPH 170 and UPH 175, or instructor permission.