Surgical Technology Program

Presented by: Dotty McClannen

2017-2018

On-Line Information Session

- This presentation is intended to provide an overview of the Surgical Technology Program at Ivy Tech Community College in Lafayette.

- All prospective students are responsible for accessing the *Overview & Application Process Booklet* for detailed information on program requirements & the selective admission process.

- You may find the program *Overview & Application Process Booklet* at ivytech.edu>academics>degree programs by school>surgical technology>lafayette.

Upon Completion of the Surgical Technology Program

◆ You will:

- Earn an Associate of Applied Science (AAS) in Surgical Technology.

- Be eligibility to apply to the *National Board of Surgical Technology & Surgical Assisting* to take National Surgical Technology Exam.

- Be prepared for entry level employment as a Surgical Technologist.

Program Overview: Nature of the work

- ◆ "Scrubs" assist in surgical operations under the supervision of surgeons.

- ◆ They are members of operating room team.

- ◆ Surgical Techs:
  - ■ Set up surgical instruments, equipment, sterile drapes, and sterile solutions.
  - ■ Transport patients to the operating room
  - ■ Cover the patient with sterile surgical drapes.
  - ■ Help the surgical team put on sterile gowns & gloves.
  - ■ Anticipate the needs of the surgeon throughout the procedure

Program Overview: Personal Traits

- The ideal Certified Surgical Technologist:
    - is organized with good attention span.
    - has an eye for detail yet is flexible when needed.
    - thrives in a fast paced environment.
    - accepts direction from superior(s).
    - works well with team members.
    - has good manual dexterity.
    - is precise in follow through.
    - has good communication skills.
    - has a desire to help people.
    - manages stress appropriately.
    - Is physically fit to withstand the physical demands of the job.

Program Overview: Occupational Hazards

♦ Surgical Technologists have increased health risks due to work related exposure to:

- x-ray.

- blood borne pathogens
  such as hepatitis & HIV.

- latex.

Place of Employment

- Surgical Technologists find employment in:
  - Hospitals
    - Surgery
    - Labor & Delivery
    - Emergency Department
    - Endoscopy Lab/GI Lab
    - Central Sterile Processing
  - Outpatient/surgery centers
  - Offices of physicians & surgeons

Market Demand Analysis: Jobs

- Surgical technologists held about 107,700 jobs in 2016.
- Job Outlook from 2016 -2026
  - projected to grow by 12% which is faster than average.

According to the 2018 Occupational Outlook Handbook, Bureau of Labor Statistics, US Department of Labor

Market Demand Analysis: Pay

- ◆ Median earnings in 2016 for Surgical Techs was:
    - ▪ annual salary of $45,160.
    - ▪ Annual hourly pay is $22.00.

According to the 2018 Occupational Outlook Handbook, Bureau of Labor Statistics, US Department of Labor
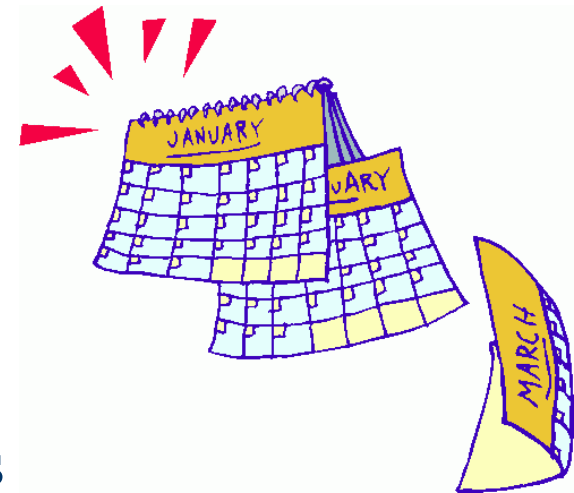
Program Overview: Degrees Awarded

- Graduates receive an Associate of Applied Science (AAS) Degree in Surgical Technology
- There is no Baccalaureate degree in Surgical Technology.
- Students wanting to earn a baccalaureate degree may consider transfer in at a junior level to select 4 year universities.

Program Overview: Length of Program

- Surgical Technology is a minimum of 2 years (5 semesters) including summer session the second year
- Most students take 3 years for completion due to:
  - need for developmental courses prior to beginning the college level courses
  - repeating courses if unsuccessful
  - delay in acceptance into the clinical phase

Curriculum – Pre-clinical

- **SURG Pre-requisites (28 credits)**
  - APHY 101 & 102 — Anatomy & Physiology I & II
  - BIOL 211 — General Microbiology
  - MATH 123 or higher — Mathematics Elective
  - ENGL 111 — English Composition
  - COMM 101/102 — Communications Elective
    - COMM 101: — Fundamentals of Public Speaking
    - COMM 102: — Introduction to Interpersonal Communications
  - SOCI 111/PSYC 101 — Social Science Elective
    - SOCI 111: — Intro to Sociology
    - PSYC 101: — Intro to Psychology
  - IVYT 112 — Student Success in Healthcare
  - HLHS 101 — Medical Terminology
  - HLHS 105 — Medical Law & Ethics
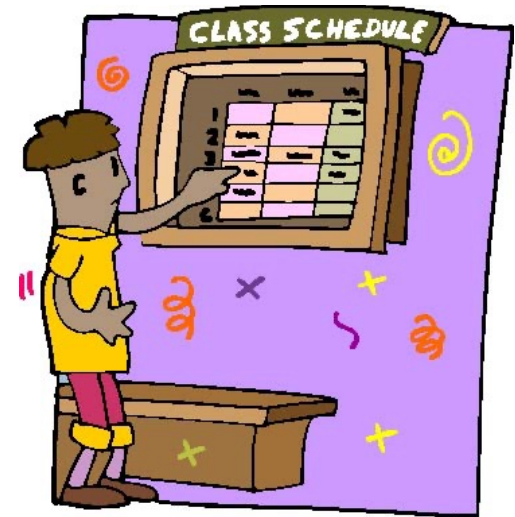 - SURG 203 — Surgical Pharmacology

Curriculum – Clinical Year

◆ Technical Core   (37 credits)

- SURG 111 Fundamentals of Surgical Technology   4 cr.
- SURG 112 Applications of Surgical Fundamentals   2 cr.
- SURG 113 Surgical Procedures I   3 cr.
- SURG 114 Clinical Applications II   3 cr.
- SURG 211 Surgical Procedures II   6 cr.
- SURG 212 Clinical Applications II   9 cr.
- SURG 213 Surgical Procedures III   3 cr.
- SURG 214 Clinical Applications III   7 cr.

Program Overview: Student Advising

- 1st semester, ALL students go to the Advising Center in Ivy Hall, room 2117 to schedule classes.

- Thereafter, student may register online &/or be advised by SURG faculty in the School of Health Sciences located in Ivy Hall 2144.

- Call 765-269-5720 to schedule an appointment with a SURG advisor.

- Accurate advising is critical to verify you are taking the appropriate courses & following procedure.

Program Overview: Selective Admission

- Admission to the clinical year of Surgical Technology Program is limited to 20 students.

- Unlimited number of students may enroll in the pre-clinical phase; pre-req enrollment is not limited.

- SURG courses may not be taken until admitted to the program with the exception of SURG 203.

- Prerequisite courses must completed before beginning the technical phase with SURG 111 & 112 in the fall semester.

- Completion of prerequisite courses does NOT guarantee admission to a Surgical Tech program.

Program Overview: Student Selection

- If more than 20 students apply for acceptance to the clinical year, a selection process will be implemented.

- The selection process assesses applicants based on a rank score.

- Applicants will be sequentially ranked according to their final score.

- The 20 students with the highest rank score will be accepted.

Program Overview: Selection Process

- ◆ Student Selection is based:
  - ▪ 75% on courses completed & grades received.
  - ▪ 25% on PSB-HOAE standardized aptitude test.
- ◆ A point system is used to calculate the rank score.

Program Overview: Selection Process

- 75% of the rank score is based on points awarded based on:
  - ▪ courses the student has completed at the time of application.
  - ▪ the grade the student received for the completed course.
- Follow the table below:

Points Awarded	Completed Courses	Points Awarded	Completed Courses
A = 6 points B = 4 points C = 2 points D = 0 points	Anatomy and Physiology I Anatomy and Physiology II Microbiology Medical Terminology Surgical Pharmacology Medical Law and Ethics	A = 3 points B = 2 points C = 1 point D = 0 points	Mathematics Elective Intro to Psychology OR Intro to Sociology English Composition Fundamentals of Public Speaking OR Intro to Interpersonal Communications
	Upon completion of the IVYT 112 course, you will receive 2 points.		

Program Overview: Selection Process

- Note:
    - If a student transfers courses from another college, the grades for those courses ONLY will be calculated.
    - If a student has not taken a course at the time of application, he/she may still apply BUT will receive zero points for that course.

Program Overview: Selection Process

- 25% of the ranks score is based on points awarded for the PSB-HOAE test;

- Points are awarded based on a sum of the five category percentile scores divided by 10.

- To be considered for admission to the program, a student MUST have:
  - a percentile score of 25 or higher in each category OR
  - a composite score of 200 or higher PSB scores will be valid from one (1) year.

Program Overview: PSB-HOAE

◆ PSB Health Occupation Aptitude Examination (HOAE)

- designed to predict an individual's readiness & capability for successful completion of the Surgical Technology Program.

- comprised of 5 separate tests that measure abilities, skills, knowledge & attitudes important for success in the program/career choice.

- selectively normed on applicants for admission to all of the various health care career choices.

Program Overview: PSB-HOAE

- 5 separate tests included in the PSB-HOAE:
    - **Part I - Academic Aptitude** is composed of a total of 3 combined subtests; it evaluates the ability to learn. The test content is specifically adapted for appraising the combination of innate & acquired abilities that are needed for work of an academic nature. It emphasizes familiar experiences & concepts while requiring careful reasoning & the capacity to comprehend and draw conclusions.
        - Verbal consists of 30 vocabulary-related test questions.
        - Arithmetic consists of 30 items drawing largely from arithmetic.
        - Nonverbal consists of 30 test items calling for a comprehension of form relationships.
    - **Part II – Spelling** measures written expression or communication
    - **Part III - Reading Comprehension** measures ability to understand direct statements, interpret written content, see the authors intent, observe organization of ideas, and to extract information from written material with respect to ideas & purposes.
    - **Part IV - Natural Sciences** measures biology, chemistry, health, safety, etc., at a fundamental level.
    - **Part V – Vocational Adjustment Index** evaluates the person's feelings, attitudes, opinions, & other personality characteristics & behavioral traits.

Program Overview: PSB-HOAE

◆ Geared for high-school graduates

◆ PSB-HOAE Preparation

   ■ Visit http://www.psbtests.com/web/guest/test-resources/

     ● Sample test questions

     ● Test taking tips

     ● Understanding the results

Program Overview: PSB-HOAE

- When do I take the PSB?
  - The PSB-HOAE must be completed by 2/1 when the Surgical Tech application is due.
  - Appointments for taking the exam are available in the Assessment Center:
    - Monday - Thursday 9:30 am to 3:30pm.
    - Friday 9:30 am to 12:30 pm.
  - I recommend taking the exam in November or December so you will have time to retest if necessary.

Program Overview: PSB-HOAE

◆ Be informed:

  ■ PSB-HOAE scores are valid for 1 year.

  ■ The PSB-HOAE may be taken twice a year, but you must wait a month between sittings.

  ■ The higher of the 2 total scores will be accepted.

  ■ The testing center will send the SURG program your results directly.

Program Overview: PSB-HOAE

- How do I sign up for the PSB-HOAE?
  - Step 1: Pay $40.00 for the exam at the Cashier's Office
  - Step 2: Sign up for the exam; there are 3 ways to sign up!
    - Go to the Assessment Center in Ivy Hall, room 1135, present your receipt to the Assessment Center Assistant, & select a testing date & time.
    - Call the Assessment Center at 765-269-5611, give them your receipt number, & select a testing date & time.
    - Go online to www.ivytech.edu/schedulenow. The Assessment Center will call you to get your receipt number.
- NOTE: If a student must reschedule or cancel the test appointment, please notify the Assessment Center within 24 hours prior to the test. If not, a rescheduling fee will charged.

2018 Selection Data Statistics: Average Rank Scores

- In 2018, 25 students applied by the 2/1/18 application due date.

- Five student applications were incomplete.

- All students that filed complete applications by the due date were accepted!

2018 Selection Data Statistics: Pre-Req Course Completion

◆ Completion of all pre-req courses at the time of application (2/1) increases a student's chance of being acceptance

◆ Course completion data from 2018 accepted student:

- 8 students had all pre-reqs complete
- 5 students had all but 1 pre-req complete
- 3 students had all but 2 pre-req courses complete
- 4 students had all but 3 pre-req courses complete
- No students were accepted that needed 4 or more courses

Program Overview: Mandatory Drug Screen & Criminal Background Check

- While the College does not require drug screenings or criminal background checks of its School of Health Sciences students unless required by law to do so, the College cannot control or influence the requirements placed on the program by independent clinical sites.

- The student's successful completion of the Surgical Technology Program will be affected by the student's ability to pass a drug screening test and/or a criminal background check.

- Negative drug screen is mandatory before beginning the first semester of clinical experience.

- Cost is the student's responsibility; approximately $99.00 for both tests.

- Be informed that some healthcare institutions do not hire employees with a criminal record

CertifiedBackground.com

Program Overview: Mandatory Drug Screen

◆ The drug testing will include testing for the following substances:

- Amphetamines & Barbiturates
- Benzodiazepines
- Cocaine & Marijuana
- Methadone & methaqualone
- Opiates, PCP & Darvocet

Program Overview: Criminal Background Check

♦ The criminal background check will include:

- County Criminal Records
- Residency History & Social Security Number Verification
- Nationwide Sexual Offender Index
- Nationwide Healthcare Fraud and Abuse Scan (including Medicare & Medicaid Sanctioned Excluded Individuals, Office of Research Integrity (ORI)
- Office of Regulatory Affairs (ORA)
- FDA Debarment Check, Office of Inspector General (OIG)List of Excluded Individuals/Entities
- General Services Administration (GSA)-Excluded Parties List)
- the U.S. Patriot Act (including Terrorism Sanctioned Regulations, Office of Foreign Asset Control (OFAC)
- List of Specially Designated Nationals (SDN)
- U.S. Treasury, Department of State Trade Control (DTC) Debarred Parties

Program Overview: Student Pregnancy

- Pregnancy does not preclude participation in the program; this decision is between the student & her physician.

- Students must discuss potential hazards in the healthcare environment/surgery with their physicians such as x-rays.

- Pregnant students are discouraged from taking courses during the semester of their due date; clinical attendance policies are not waived.

Program Overview: Caring for Clients with Infectious Diseases

◆ Students must be willing to care for clients with infectious diseases, such as hepatitis or HIV.

◆ Students will be taught standard precautions to avoid exposure to these pathogens.

◆ It is the student's responsibility for following standard precautions as instructed.

◆ If you are unwilling to care for such clients, please see an advisor for alternate career counseling.

Program Overview: Working

◆ Pre-requesite courses

- are offered on a part-time schedule
- lend themselves to students working

◆ SURG courses

- are offered on a full-time schedule
- present difficulty for students to work

◆ Course schedules & assignment due dates will not be adjusted to accommodate work schedules.

Clinical Experiences

- Students will scrub on surgical procedures at:
    - Indiana University Arnett Hospital & Surgery Center
    - Franciscan Alliance – St. Elizabeth East & Crawfordsville
    - Short rotations available at:
        - Indiana University White Memorial
        - Franciscan Health Crawfordsville
        - Franciscan Health Rensselaer
        - St. Vincent Williamsport
        - Indiana University Frankfort

Student Success

◆ Graduate joined the military to put his scrub skills to work for our country.

◆ Graduate form the SURG program receiving his lab coat during the "White coat Ceremony"

Program Overview: Full-Time Faculty

- **Dotty McClannen, RN, MSN, CST**
  - Master of Science in Family Nurse Practitioner
  - Registered Nurse
  - Certified Surgical Technologist

- **Lyla Etchison, MEd, CST/CSFA**
  - Master of Education
  - Certified Surgical Technologist
  - Certified Surgical First Assistant

Professional Organization

◆ Association of Surgical Technologists (AST)

◆ Primary purpose is to ensure that surgical technologists & surgical assistants have the knowledge and skills to administer patient care of the highest quality.

◆ www.ast.org for more information

AST
Association of Surgical Technologists

Ivy Tech Community College Accreditation

◆ Ivy Tech Community College is accredited by the North Central Association of Colleges and Schools

Surgical Technology Program Accreditation

◆ All Ivy Tech SURG programs are accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in collaboration with the Accreditation Review Committee on Education in Surgical Technology & Surgical Assisting (ARC-STSA).

◆ Accreditation is ongoing without an expiration date with:

   ■ Submission of an annual report yearly

   ■ Onsite visit once every 10 years