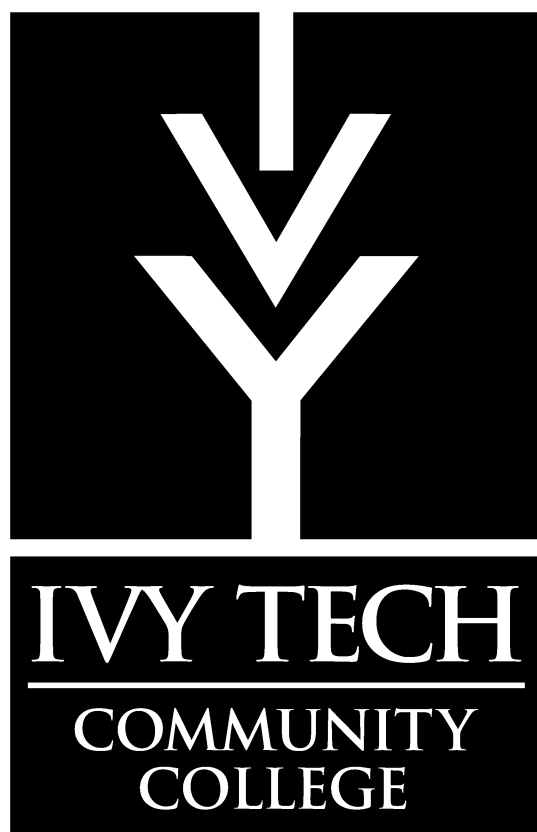


# SURGICAL TECHNOLOGY PROGRAM



IVY TECH COMMUNITY COLLEGE OF INDIANA  
EAST CENTRAL  
INFORMATION AND APPLICATION PACKET

**Surgical Technology Program  
Division of Health Sciences  
Ivy Tech Community College of Indiana  
East Central Region**

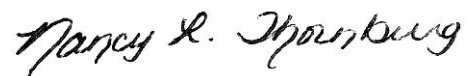
Thank you for your interest in the Surgical Technology Program. Enclosed is information that you will find helpful in exploring the field of Surgical Technology.

If you would like additional information or if you have questions, feel free to contact one of us to make an appointment or discuss the program over the phone.

We would like the chance to welcome you to the Surgical Technology Program.



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## **What is a Surgical Technologist?**

The surgical technologist is a highly-skilled member of the surgical team, qualified by didactic and clinical education to provide safe and efficient care to the patient in the operating room. The didactic education consists of courses in Anatomy and Physiology, Microbiology, Pharmacology, Medical Law and Ethics, Surgical Techniques and Surgical Procedures. Closely supervised clinical education is provided in local area hospitals.

## **Physical Criteria: (In compliance with the American Disabilities Act)**

- Vision – correct to 20/20
- Hearing – correct to normal
- Haptic – sense of touch (normal)
- Manual dexterity – able to perform manipulative skills with speed, dexterity and agility
- Physical strength – able to lift with no restrictions
- Physical ability – able to climb stairs, bend and stretch

## **Employment:**

Many surgical technologists are employed in hospital operating rooms, delivery rooms, cast rooms, emergency departments, ambulatory care areas and in central supply departments. Some serve in management roles in surgical services departments. In the private scrub role, they are employed directly by surgeons, while others work as first surgical assistants. They are utilized in clinics and surgical centers. According to the United States Bureau of Labor Statistics website: ([http://stats.bls.gov/oes/current/oes\\_in.htm#\(3\)](http://stats.bls.gov/oes/current/oes_in.htm#(3))), the average annual salary for a surgical technologist in Indiana is \$36, 680. 00. The average hourly rate is \$17.63.

## Admission Steps

1. Admission to the college.
2. Complete Academic Skills Assessments requirements (if applicable).
3. See a Surgical Technology Advisor for advising.
4. Take the PSB Exam in Health Occupations\*. You may not take the PSB until all prescribed Academic Skills classes have been completed, (Engl 024, Engl 025, Engl 031, Engl 032, and Math 050). Submit test results with application.
5. Apply for admission to the Surgical Technology Program. Submit transcripts of any post-secondary or college work completed, including transcripts of work done at any Ivy Tech location. The application, PSB test results, and transcripts must be received in the School of Health Sciences Office, Room 680, North Instructional Center, no later than May 1<sup>st</sup>.

**Admission Criteria:** Students **MUST** have completed Anatomy and Physiology I (APHY 101), Medical Terminology (HLHS 101), English Composition (ENGL 111) and either Intermediate Algebra (MATH 111) or Concepts in Mathematics (MATH 118) by the end of the spring semester in which the student has applied or the student is not eligible to be accepted to the program. Progression through the program's curricula is sequential. Enrollment in the clinical portion of the program is dependent upon the successful completion of all required prior semester courses with a grade of D or better and a 2.0 GPA. Schedule an appointment with a faculty member of the Surgical Technology Program in the fall before submitting an application in the spring.

**\*Admission test:** Students will need to take the **PSB exam in Health Occupations**. The PSB exam is given in the Ivy Tech Workforce Certification Center. Call for dates and times to take the test, (765) 289-2291, ext. 1320. Cost to take the exam is \$40.00. The PSB-HO test may be taken twice in a 365 day period, at least 30 days apart. THESE SCORES ARE VALID FOR ONE (1) YEAR.

## Surgical Technology Program Selection Process

- After all application materials are received, the applications and transcripts are reviewed for completeness. Students MUST have completed Anatomy and Physiology (APHY 101), Medical Terminology (HLHS 101), English Composition (ENGL 111) and either Intermediate Algebra (MATH 111) or Concepts in Mathematics (MATH 118) with a grade of D or better, by the end of the spring semester in which the student has applied. For example, a student applying to the program for May 1, 2012 has to have completed the above classes by the end of May, 2012. Students who have not met these requirements will not be eligible to be considered for the program.
- The application will then be evaluated by grades of specific classes and assigned points based on the grade as following:

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 Pharmacology Medical Law and Ethics	A=3 points B=2 points C=1 points D=0 points	Intermediate Algebra or Concepts in Mathematics Intro to Psychology or Principles of Sociology English Composition Intro to Interpersonal Communication or Speech

- The students PSB-HO will then be evaluated. The student must achieve a total of at least 200 cumulative percentile score of five categories on the PSB-HO. The category scores that are totaled are: Academic Aptitude-Total, Spelling, Reading Comprehension, Information in the Natural Sciences, and Vocational Adjustment Index. Students who do not achieve a total of 200 of these five scores will not be eligible to be considered for the program. The PSB exam must be completed by May 1st of the year you are applying for the program. Scores are valid for one (1) year.
- Rank scores are then placed in order. The number of students accepted will be the number of clinical positions that are available. Students whose rank scores are not accepted in the class but who meet all the qualifications will be accepted as alternates. If positions become available in the class, alternates will be accepted according to the original rank score. Alternates are notified of acceptance as soon as possible prior to the first day of class.
- Potential applicants should be aware that the Surgical Technology Program is a competitive program. More students apply each year than are able to be accepted. Good grades increase a student's chances to get in the program as does a high PSB-HO score.

## FAQ

**Q: What are my chances of getting in to the Surgical Technology Program if I apply?**

A: The Surgical Technology faculty has no way of determining any individual student's chances of getting in.

**Q: If I apply to the Surgical Technology Program by May 1st, how soon will I know if I got in or not?**

A: Students are informed by the end of May.

**Q: If I get into the program what will my schedule be like?**

A: The Surgical Technology Program requires a great commitment by students. The schedule for surgical technology will be (subject to change):

**Fall**

Monday	Tuesday	Wednesday	Thursday	Friday
Class 12:30 – 4:30	Clinical 7:00-3:30	Clinical 7:00-3:30	Class 12:30 – 4:30	

**Spring**

Monday	Tuesday	Wednesday	Thursday	Friday
Clinical 7:00-3:30	Clinical 7:00-3:30	Clinical 7:00-3:30 Class 16:30 – 19:30	Clinical 7:00-3:30	Clinical 7:00-3:30

**Summer**

Monday	Tuesday	Wednesday	Thursday	Friday
Clinical 7:00-4:30	Clinical 7:00-4:30	Clinical 7:00-4:30 Class 16:30 – 19:30	Clinical 7:00-4:30	Clinical 7:00-4:30

**Q: Where will I be doing my clinicals?**

A: Clinical facilities include (subject to change): Ball Memorial Hospital of Muncie, Community Hospital of Anderson, St. John's of Anderson, Henry County Memorial Hospital of New Castle, River View Surgery Center in Marion. Additional clinical sites may be added. Transportation to and from clinical sites is the responsibility of the student. All students will be assigned a rotation at three of the affiliates.

# **Ivy Tech Community College of Indiana**

## **Muncie - Region 6**

### **Surgical Technology Program**

#### **APHY 101 - Anatomy & Physiology I**

**3 credits**

This course is designed to develop a comprehensive understanding of the close interrelationship between anatomy and physiology as seen in the human organism. It begins by introducing the student to the cell which is the basic structural and functional unit of all organisms and covers tissues, integument, skeleton, muscular and nervous systems as an integrated unit.

#### **APHY 102 - Anatomy & Physiology II**

**3 credits**

A continuation of the study of the interrelationships of the systems of the human body. Prerequisite: APHY 101

#### **BIOL 211 - General Microbiology**

**3 credits**

This course presents an overview of microbiology which includes fundamentals, methods and materials, an introduction to industrial and clinical microbiology, and special topics.

#### **COMM 101 – Speech**

**3 Credits**

Introduces fundamental concepts and skills for effective public speaking, including audience analysis, outlining, research, delivery, critical listening and evaluation, and use of visual aids/technology.

#### **COMM 102 - Intro to Interpersonal Communication**

**3 credits**

Focuses on the process of the interpersonal communication as a dynamic and complex system of interactions. Stresses the importance of understanding and applying interpersonal communication theory in work, family and social relationships. Uses lecture/discussion format.

#### **ENGL 111 - English Composition**

**3 credits**

Provides a foundation in rhetorical principles, communication strategies and inquiry processes that successfully can be applied in personal, academic, or professional writing situations. Initiates and integrates the composing process with critical reading and thinking.

#### **HLHS 101 - Medical Terminology**

**3 credits**

Addresses basic terminology required of the allied health professional and provides a basic knowledge of anatomy and physiology, pathology, special procedures, laboratory procedures and pharmacology. Green & Latin prefixes, suffixes, word roots and combining forms are presented. Emphasis is on forming a foundation for a medical vocabulary, including meaning, spelling and pronunciation. Medical abbreviations, signs and symbols are included.

#### **HLHS 105 - Medical Law & Ethics**

**3 credits**

Presents ethics of medicine and medical practice as well as legal requirements and implications for allied health professions.

#### **MATH 111 - Intermediate Algebra**

**3 credits**

Presents an in-depth study of fundamental concepts & operations of algebra including real numbers, roots, linear equations, inequalities, graphing, systems of equations, polynomials, factoring, scientific

notation, introduction to logarithms, rational expressions, quadratic equations, and conversions of English & metric units.

**PSYC 101 - Introduction to Psychology**

**3 credits**

Provides a general survey of the science of psychology. It includes the study of research methodology, emotion, biological foundations, learning and cognition, perception, development, personality, abnormal psychology, and social psychology.

**SOCI 111 - Introduction to Sociology**

**3 credits**

Introduces students to the science of human society, including fundamental concepts, descriptions, and analysis of society, culture, the socialization process, social institutions and social change.

**MEAS 218 (SURG 201) - Pharmacology**

**3 credits**

Discusses the most common medications in current use with emphasis on the classifications, uses routes of administration, dosages, interactions, incompatibilities, and side effects. Emphasizes the 50 most commonly prescribed drugs listed in the Pharmacy Times. Addresses special precautions, legal aspects, patient education, and preparation and administration of medications. Prerequisite APHY 101.

The college may revise any matter described in this publication at any time without publishing a revised version. This publication and its provisions are not in any way a contract between the student and Ivy Tech Community College of Indiana.

**Ivy Tech Community College of Indiana is an Accredited/Equal Opportunity/Affirmative Action State College.**

## **SURG Course Descriptions**

### **SURG 111 Fundamentals of Surgical Technology**

**4 credits**

(Prerequisites: Admission to the clinical phase of Surgical Program, APHY 101-Anatomy & Physiology I, MATH-111-Intermediate Algebra or higher, ENGL 111-English Composition, HLHS 101-Medical Terminology.) (Co requisite: SURG 112–Application of Surgical Fundamentals.) Introduces principles of sterile techniques and the operative care of the surgical patient. Includes the roles of scrubbing and circulating duties.

### **SURG 112 Applications of Surgical Fundamentals**

**2 credits**

(Prerequisites: Admission to the clinical phase of Surgical Program, APHY 101 - Anatomy & Physiology I, MATH 111 - Intermediate Algebra or higher, ENGL 111 English composition, HLHS 101 Medical Terminology.) (Co requisite: SURG 112 – Application of Surgical Fundamentals.) Demonstrates the application of surgical fundamentals. Correlates theory to practice by requiring students to participate as members of a surgical team in laboratory simulations.

### **SURG 113 Surgical Procedures I**

**3 credits**

(Prerequisites: SURG 111-Fundamentals of Surgical Technology and SURG 112-Applications of Surgical Fundamentals, APHY 102-Anatomy & Physiology II, BIOL 211-General Microbiology, MEAS 218 (SURG 201)-Pharmacology, MEAS 286 (HLHS 105)-Medical Law and Ethics.). (Co requisites: SURG 114-Clinical Applications I). Introduces general surgical procedures with review of perioperative patient care including diagnostic testing, pre-operative care, and immediate post-operative care.

### **SURG 114 Clinical Applications I**

**3 credits**

(Prerequisites: SURG 111-Fundamentals of Surgical Technology and SURG-112 Applications of Surgical Fundamentals, APHY 102-Anatomy & Physiology II, BIOL 211-General Microbiology, MEAS 218 (HLHS 201) -Pharmacology, HLHS 105-Medical Law and Ethics). (Co requisites: SURG 113 - Surgical Procedures I). Correlates the principles and theories of basic surgical procedures to clinical performance in affiliating hospitals. Includes knowledge, skills and attitudes necessary for successful implementation of safe patient care in an operating room.

### **SURG 211 Surgical Procedures II**

**6 credits**

(Prerequisites: SURG 113-Surgical Procedures I, SURG 114-Clinical Applications I, COMM 101-Fundamentals of Public Speaking or COMM 102-Introduction to Interpersonal Communication, PSYC 101 – Intro to Psychology or SOCI – 111 Principles of Sociology.) (Co requisites: SURG 212-Clinical Applications II.) Studies advanced surgical procedures in relation to the physiological aspects of surgical intervention including those procedures related to the special senses, genitourinary, reproductive, musculoskeletal and nervous systems. Includes knowledge of the involved anatomy, existing pathology, surgical hazards encountered, the surgical procedure, and a review of perioperative patient care.

**SURG 212: Clinical Applications II****9 credits**

(Prerequisites: SURG 113-Surgical Procedures I, SURG 114-Clinical Applications I, COMM 101-Fundamentals of Public Speaking or COMM 102-Introduction to Interpersonal Communication, PSYC 101 – Intro to Psychology or SOCI 111 – Principles of Sociology.) (Co requisites: SURG 211-Surgical Procedures II.) Correlates the basic principles and theories of advanced surgical procedures to clinical performance in affiliating hospitals. Includes knowledge, skills and attitudes necessary for successful implementation of safe patient care in an operating room.

**213 Surgical Procedures III****3 credits**

(Prerequisites: SURG 211-Surgical Procedures II, SURG 212-Clinical Applications II.) (Co requisites: SURG 214-Clinical Applications III.) Studies specialized surgical procedures including those related to aesthetic and reconstructive surgery, the cardiothoracic and vascular systems. Includes knowledge of the involved anatomy, existing pathology, surgical hazards encountered, the surgical procedure, and a review of perioperative patient care.

**SURG 214 Clinical Applications III****7 credits**

(Prerequisites: SURG 211-Surgical Procedures II and SURG 212-Clinical Applications II.) (Co requisites: SURG 213-Surgical Procedures III.) Correlates principles and theories of specialized surgical procedures to the clinical performance in affiliating hospitals. Includes the knowledge, skills and attitudes necessary for successful implementation of safe patient care in an operating room.

**SURGICAL TECHNOLOGY  
ASSOCIATE OF APPLIED SCIENCE**

Name: \_\_\_\_\_ SSN: \_\_\_\_\_ Start Date: \_\_\_\_\_

**FIRST SEMESTER (Fall) – 15 CREDITS**

Course #	Description		Prerequisites/Co-requisite	Date/Grade
APHY 101	Anatomy and Physiology I	3	ENGL025, ENGL032, MATH 015 or MATH 023 or MATH050	_____
ENGL 111	English Composition I	3	ENGL025, ENGL032	_____
MATH XXX	Mathematics Elective	3	MATH 015 or MATH 023 or MATH050	_____
HLHS 101	Medical Terminology	3	ENGL025, ENGL032	_____
*XXX	Humanities/Social Sciences Elective	3	Varies by course	_____
IVYT 1XX	Life Skills Elective	1	No Prerequisites	_____

**SECOND SEMESTER (Spring) – 16 CREDITS**

Course #	Description		Prerequisites/Co-requisite	Date/Grade
APHY 102	Anatomy and Physiology II	3	APHY101	_____
BIOL 211	General Microbiology	3	APHY101, ENGL025, ENGL032, MATH 015 or MATH 023 or MATH050	_____
HLHS 105	Medical Law and Ethics	3	ENGL025, ENGL032	_____
MEAS 218 or SURG 201	Pharmacology	3	ENGL025, ENGL032, MATH 015 or MATH 023 or MATH050, APHY101, HLHS101	_____
COMM 101	Fundamentals of Public Speaking	3	ENGL025, ENGL032	_____
Or		or		
COMM 102	Interpersonal Communication	3	ENGL025, ENGL032	_____

**THIRD SEMESTER (Summer) – 6 CREDITS (Selective admission to the clinical phase is required to proceed.)**

Course #	Description		Prerequisites/Co-requisite	Date/Grade
**SURG 111	Fundamental of Surgical Technology	4	APHY101, MATH111, ENGL111, HLHS101, <b>SURG112</b>	_____
**SURG 112	Application of Surgical Fundamentals	2	APHY101, MATH111, ENGL111, HLHS101, <b>SURG111</b>	_____

**FOURTH SEMESTER (Fall) – 6 CREDITS**

Course #	Description		Prerequisites/Co-requisite	Date/Grade
SURG 113	Surgical Procedures I	3	SURG111, SURG112, APHY102, BIOL211, MEAS218 (SURG201), <b>SURG 114</b>	_____
SURG 114	Clinical Applications I	3	SURG111, SURG112, APHY102, BIOL211, MEAS218 (SURG201), <b>SURG113, CPR</b>	_____

**FIFTH SEMESTER (Spring) – 15 CREDITS**

Course #	Description		Prerequisites/Co-requisite	Date/Grade
SURG 211	Surgical Procedures II	6	SURG 113, SURG 114, COMM101 or COMM102, PSYC101 or SOC1111, <b>SURG212</b>	_____
SURG 212	Clinical Applications II	9	SURG 113, SURG 114, COMM101 or COMM102, PSYC or SOC1111, <b>SURG211</b>	_____

**SIXTH SEMESTER (Summer) – 10 CREDITS**

Course #	Description		Prerequisites/Co-requisite	Date/Grade
^SURG 213	Surgical Procedures III	3	SURG211, SURG212, SURG214	_____
^SURG 214	Clinical Applications III	7	SURG211, SURG212, SURG213	_____

**^Capstone Course**

\*Elective is defined as a course chosen by the student from the inventory of courses available on a campus.

\*\*Selective admission to the clinical phase is required for SURG111 and SURG112.

### **Certification/Licensure Training Disclaimer**

Ivy Tech Community College of Indiana cannot guarantee that any student will pass a certification or licensing exam. The student's success will be determined by several factors beyond the instruction given in the class room including (but not limited to) test-taking skills, willingness to study outside of class, and satisfactory completion of appropriate practice exams. Certification and licensure exam questions are drawn from databases of possible questions, therefore, a thorough understanding of the subject matter is required. The goal of Ivy Tech in providing a certification/licensure studies class is to assist the student in understanding the material sufficiently to provide a firm foundation for studies as the student prepares for the exam.

### **Criminal History Check/Drug Screening**

It is possible that during the course of study of Surgical Technology, the student will be required by a clinical, internship, or externship site to submit to drug screening or a criminal history check. While the College does not require drug screenings or criminal history checks of its Health Sciences Division students, unless required by law to do so, the College cannot control or influence the requirements placed on students by independent clinical sites. Consequently, the student's ability to successfully complete the Surgical Technology program of study may be affected by the student's ability to pass a drug screening test, criminal history check or both. In the event that the student is required to submit to one or to both, the student will have to bear the cost of the test/check.

### Approximate Cost for the Surgical Technology Program

<b>FIRST YEAR</b>		<b><u>FEES</u></b>
Fall Semester	16 credits @ \$107.80/cr. hr	\$ 1,764.00
Spring Semester	15 credits @ \$107.80/cr. hr	\$ 1,657.00
<b>SECOND YEAR</b>		
Fall Semester	12 credits @ \$107.80/cr. hr	\$ 1,333.00
Spring Semester	15 credits @ \$107.80/cr. hr	\$ 1,667.00
Summer Semester	10 credits @ \$107.80/cr. hr	\$ 1,128.00
Uniform and shoes		\$ 150.00
Health and Eye exam		(undetermined)
Membership into the Association of Surgical Technologists (Recommended)		\$ 45.00
CPR certification		\$ 40.00
Estimate of textbook cost-(General Education and Surgical Technology)		<u>\$ 1,011.00</u>
<b>ESTIMATED TOTAL COST OF PROGRAM</b>		<b>\$ 8,795.00</b>

NOTE: The above calculations are for In-State Tuition. Out-of-state tuition can be calculated at \$230.20 per credit hour. A \$40.00 Tech Fee per semester has been included in the Fees listed above.

**APPLICATION TO THE SURGICAL  
TECHNOLOGY PROGRAM  
IVY TECH COMMUNITY COLLEGE OF INDIANA**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_ M.I.: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Alternate Number: \_\_\_\_\_

Student ID Number: \_\_\_\_\_

Have you ever attended Ivy Tech? Yes \_\_\_\_\_ No \_\_\_\_\_ If yes, where? \_\_\_\_\_

Are you a current student at Ivy Tech? \_\_\_\_\_ No \_\_\_\_\_ If yes, which program? \_\_\_\_\_

List any degrees you have and the institution where you received the degree: \_\_\_\_\_

How did you hear about the Surgical Technology Program at Ivy Tech Community College of Indiana in Muncie? \_\_\_\_\_

**ADMISSION CRITERIA:**

**Admission Criteria:** Students **MUST** have completed Anatomy and Physiology I (APHY 101), Medical Terminology (HLHS 101), English Composition (ENGL 111) and either MATH 111 Intermediate Algebra or MATH 118 Concepts in Mathematics by the end of the spring semester in which the student has applied or the student is not eligible to be accepted to the program. Progression through the program's curricula is sequential. Enrollment in the clinical portion of the program is dependent upon the successful completion of all required prior semester courses with a grade of D or better and a 2.0 GPA. Schedule an appointment with a faculty member of the Surgical Technology Program in the fall before submitting an application in the spring.

**\*Admission test:** Students will need to take the **PSB exam in Health Occupations**. The PSB exam is given in the Ivy Tech Workforce Certification Center. Call for dates and times to take the test, (765) 289-2291, ext. 1320. Cost to take the exam is \$40.00. The PSB-HO test may be taken twice in a 365 day period, at least 30 days apart. THESE SCORES ARE VALID FOR ONE (1) YEAR.

**PSB TEST:**

Have you taken the PSB Test for the Surgical Technology Program? Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, when did you take the test? Month \_\_\_\_\_ Year \_\_\_\_\_

**Please return this application by May 1st, to:**

Ivy Tech Community College of Indiana  
Surgical Technology Program  
4301 S. Cowan Road  
Muncie, IN 47302