



North Central Michigan College Master Course Syllabus

PART 1:

Course Name: Surgical Technologist I

Course Number: SRG 120

Credit Hrs. 10 Lecture Hrs. 7 Lab Hrs. 4 Clinical Hrs. 4 Variable Hrs.

Total Hours of Instruction: 15 Total Contact Hours: 264
(Total Contact hour's formula: (lecture hrs. + lab hrs. + clinical hrs) x 17.6)

Course Description:

Surgical Technologist I is the first in the four-semester sequence for Surgical Technologist students. Students are introduced to the discipline of surgical technology, responsibilities to their patients and their fellow team members. They review issues of legality and ethics in the surgical setting, communication and teamwork. Surgical Technologist I includes current content related to microbes and the process of infection, sterile techniques, transporting, transferring and positioning the surgical patient. Fundamental principles of anesthesia, physiological monitoring, and computer technology. Course format includes lecture, lab practice and clinical observations.

Prerequisite (s): Admission to the Surgical Technologist Program, BIO 226, BIO 235, BIO 236, EMS 101, ENG 111, MATH 112, OAS 116

Co-requisite (s): None

Course Objectives:

- Identify the duties of the surgical technologist and the roles of the operating room staff members and their responsibilities, including proper and effective teamwork.
- Recognize the varieties of operating room design and describe safe traffic patterns; differentiate between restricted, semi-restricted, and non-restricted areas of the operating room.
- Define patient-centered and outcome-oriented care; demonstrate, discuss, and practice therapeutic communication.
- Describe the relationship between ethics, law, common hospital policies, criminal liability, informed consent, and advanced directives as they relate to the surgical patient.
- Demonstrate effective measures to limit disease transmission and infection.
- Differentiate between disinfection and sterilization.
- Practice fundamentals of aseptic technique.

Reasonable accommodations can be provided for students with documented disabilities. Please contact Learning Support Services to arrange for these (231)348-6687 or (231)348-6817, Room 533 SCRC.



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- Practice principles of safe body mechanics during patient transportation, transferring, and positioning.
- Describe processes of anesthesia related to the surgical patient, and differentiate between induction, maintenance, and emergence.
- Describe the role of the surgical technologist during general and regional anesthesia procedures.
- Recognize the importance of physiological monitoring during general and regional anesthesia procedures.
- Describe the process of post-operative recovery and eventual patient discharge.
- Apply pharmacology principles to prepare and administer oral, topical, and parenteral medications.
- Maintain medication and immunization records.
- Apply pharmacological principles in the surgical setting.
- Define the allied health practitioner's responsibilities in the legal aspects of drug administration.



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PART 2:

Course Objectives and Linked Lumina DQP Outcomes

See *PART 3* of this syllabus for the complete language of each Lumina DQP outcome.

- Identify the duties of the surgical technologist and the roles of the operating room staff members and their responsibilities, including proper and effective teamwork. (1)
- Recognize the varieties of operating room design and describe safe traffic patterns; differentiate between restricted, semi-restricted, and non-restricted areas of the operating room. (1)
- Define patient-centered and outcome-oriented care; demonstrate, discuss, and practice therapeutic communication. (3, 4 & 6)
- Describe the relationship between ethics, law, common hospital policies, criminal liability, informed consent, and advanced directives as they relate to the surgical patient. (1 & 5)
- Demonstrate effective measures to limit disease transmission and infection. (6)
- Differentiate between disinfection and sterilization. (1)
- Practice fundamentals of aseptic technique. (1 & 3)
- Practice principles of safe body mechanics during patient transportation, transferring, and positioning. (3)
- Describe processes of anesthesia related to the surgical patient, and differentiate between induction, maintenance, and emergence. (1)
- Describe the role of the surgical technologist during general and regional anesthesia procedures. (2 & 4)
- Recognize the importance of physiological monitoring during general and regional anesthesia procedures. (1)
- Describe the process of post-operative recovery and eventual patient discharge. (1)
- Apply pharmacology principles to prepare and administer oral, topical, and parenteral medications. (1 & 4)
- Maintain medication and immunization records. (1)
- Apply pharmacological principles in the surgical setting. (1)
- Define the allied health practitioner's responsibilities in the legal aspects of drug administration. (1, 2 & 5)



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Course Delivery Method: Classroom

Suggested Methods of Instruction:

Lecture, discussion, videos, case studies, homework, guest speakers, demonstrating psychomotor skills, and discussion of theory concepts related to patient situations.

Suggested Methods of Assessment and Evaluation:

Suggested Methods of Evaluation: Students will demonstrate appropriate cognitive responses orally and in writing during lecture, discussion sessions, and exams, demonstrate appropriate and accurate psychomotor skills in lab sessions and in clinicals, and demonstrate specific clinical task completion via clinical evaluation sheets prepared in consultation with clinical instructors.

Adopted Text at Time of Course Adoption/Revision:

Surgical Technology for the Surgical Technologist: A Positive Care Approach – 3rd Edition – Association for Surgical Technologists.

Topics Covered During the Semester:

Sequence of topics and time allowance are at the discretion of the instructor

Week 1	Introduction
Week 2	The Surgical Technologist (Intro) The Patient in Surgery
Week 3	Death and Dying in the Surgical Setting Law and Ethics in the Surgical Setting Legal Aspects of Drug Administration
Week 4	Introduction to the Health Care Facility Communication and Teamwork Medication and Immunization Records
Week 5	Microbes and the Process of Infection Decontamination, Sterilization, and Disinfection Pharmacology Principles I
Week 6	Aseptic Technique Transporting, Transferring, and Positioning the Surgical Patient
Week 7	Surgical Skin Preparation and Draping
Week 8	Anesthesia, Anesthetics, and Physiological Monitoring I Pharmacology Principles II
Week 9	Anesthesia, Anesthetics, and Physiological Monitoring II
Week 10	Postoperative Recovery and Patient Discharge
Week 11	Basic Operative Procedures Environmental Hazards
Week 12	Case Planning and Intra-operative Routines
Week 13	Biomechanics and Computer Technology
Week 14	Energy Sources in Surgery
Week 15	Minimally Invasive Endoscopic and Robotic-Assisted Surgery
Week 16	Review and Final Exam

Part 1 & Part 2 approved by CRDAP on:

Part 2 approved by AD:

Date:

Part 2 approved by CRDAP Chair:

Date:

Rev02/15



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PART 3:

LUMINA DQP OUTCOMES – Use this reference sheet for **PART 2** of Master Course Syllabus.

Specialized Knowledge

1. Describes the scope and principal features of the field of study, citing at least some of its core theories and practices, and offers a similar explication of at least one related field.
2. Illustrates contemporary terminology used in the field.
3. Generates substantially error-free products, reconstructions, data, juried exhibits or performances as appropriate to the field.

Broad Integrative Knowledge

4. Describes how existing knowledge or practice is advanced, tested and revised
5. Describes and examines a range of perspectives on key debates and their significance both within the field and in society.
6. Illustrates core concepts of the field while executing analytical, practical or creative tasks.
7. Selects and applies recognized methods of the field in interpreting characteristic discipline-based problems.
8. Assembles evidence relevant to characteristic problems in the field, describes the significance of the evidence, and uses the evidence in analysis of these problems.
9. Describes the ways in which at least two disciplines define, address and interpret the importance of a contemporary challenge or problem in science, the arts, society, human services, economic life or technology.

Intellectual Skills – Analytic Inquiry

10. Identifies, categorizes and distinguishes among elements of ideas, concepts, theories and/or practical approaches to standard problems.

Intellectual Skills – Use of Information Resources

11. Identifies, categorizes, evaluates and cites multiple information resources necessary to engage in projects, papers or performance in his or her program.

Intellectual Skills – Engaging Diverse Perspectives

12. Describes how knowledge from different cultural perspectives would affect his or her interpretations of prominent problems in politics, society, the arts and/or global relations.

Intellectual Skills – Communication Fluency

13. Presents accurate calculations and symbolic operations, and explains how such calculations and operations are used in either his or her specific field of study or in interpreting social and economic trends.
14. Presents substantially error-free prose in both argumentative and narrative forms to general and specialized audiences.

Applied Learning

15. Describes in writing at least one substantial case in which knowledge and skills acquired in academic settings are applied to a challenge in a non-academic setting; applies that learning to the question; and analyzes at least one significant concept or method related to his or her course of study in light of learning outside the classroom.
16. Locates, gathers and organizes evidence on an assigned research topic addressing a course-related question or a question of practice in a work or community setting; offers and examines competing hypotheses in answering the question.

Civic Learning

17. Describes his or her own civic and cultural background, including its origins and development, assumptions, and predispositions.
18. Describes diverse positions, historical and contemporary, on selected democratic values or practices, and presents his or her own position on a specific problem where one or more of these values or practices are involved.
19. Takes an active role in a community context (work, service, co-curricular activities, etc.), and examines the civic issues encountered and the insights gained from the community experience.

The Degree Qualifications Profile was adopted by CRDAP: April 11, 2012