



**Brochure for Option III**

**Two Day Didactic Oncology Nursing Society's (ONS) Chemotherapy and Biotherapy Course *plus* CCCWFU Cancer Chemotherapy and Biotherapy Course  
(3 Day Didactic and 5 Day Clinical Practicum)**

*Two week Chemotherapy Class*

*Week One*

<i>Monday and Tuesday</i>	<i>Wednesday, Thursday, and Friday</i>
 <p><b>Oncology Nursing Society's (ONS) Chemotherapy and Biotherapy Course (Two Day Didactic)</b></p> <p><b><u>General Information</u></b> The Oncology Nursing Society's (ONS) Chemotherapy and Biotherapy Course provides a comprehensive review of the knowledge needed to administer cytotoxic and biotherapeutic agents.</p> <p><b><u>Additional Information:</u></b> The course is NOT a certification course, and is not intended to measure competency. Individual institutions are responsible for determining their own requirements for assessing clinical competency. Upon successful completion of the course and post-test, participants will receive an ONS Chemotherapy and Biotherapy Provider Card. This card validates the participant has the theoretical foundation needed to administer cytotoxic and biotherapeutic agents. The card is valid for two years.</p> <p><b><u>Continuing Education Credit</u></b> ONS will award 13.5 contact hours to nurses who attend this program in its entirety. ONS is approved as a provider of continuing nursing</p>	 <p><b>CCCWFU Cancer Chemotherapy and Biotherapy Course</b></p> <p><b>(Three Day Didactic)</b></p> <p><b><u>General Information</u></b> This course is intended to complement the ONS Chemotherapy and Biotherapy Course and by design focus on the ambulatory infusion nurse's learning needs.</p> <p><b><u>Additional Information:</u></b> The course is NOT a certification course, and is not intended to measure competency. Individual institutions are responsible for determining their own requirements for assessing clinical competency. A certificate of completion will be awarded to participants who achieve an average passing score of 80 or above and successful completed skills within the clinical practicum. .</p> <p><b><u>Continuing Education Credit</u></b> The Section on Hematology and Oncology, Comprehensive Cancer Center of Wake Forest University is an approved provider of continuing nursing education by the North Carolina Nurses Association, an accredited</p>

education by the [California Board of Registered Nursing](#), provider number 2580.

ONS is accredited as a provider of continuing nursing education by the [American Nurses Credentialing Center's Commission on Accreditation](#).

### **Course Objectives.**

Upon completion of the course, the participant will be able to:

- Identify various therapeutic modalities used to treat cancer with emphasis on chemotherapy and biotherapy.
- Describe the investigational process all drugs undergo to gain approval for use.
- Review ethical and legal issues related to cancer therapy.
- Identify factors affecting response to cancer therapy.
- Identify selected commonly used agents, their mechanisms of action, and any unique administration issues.
- Discuss safety precautions necessary when handling cytotoxic agents.
- Review chemotherapy dose calculations and practice examples.
- Identify nursing procedures and interventions for administering cytotoxic and biologic agents.
- Discuss two immediate complications of cancer therapy, extravasation and hypersensitivity, and the nursing measures required to prevent and/or reduce these complications.
- Identify selected systematic side effects of cytotoxic and biotherapeutic agents and the nursing interventions required to manage these side effects.
- Review specific patient and family education that may prevent and/or reduce the impact of systemic side effects.

### **Program Schedule for Monday and Tuesday**

1. Introduction
  - A. Definition of cancer

approver by the American Nurses Credentialing Center's Commission on Accreditation.

### **Course Objectives**

Upon completion of the course, the participant will be able to:

- Discuss the mode of action, preparation, route of administration, side effects, and special precautions of the chemotherapy and biotherapy agents.
- Describe NIOSH Alert recommendations, OSHA Hazard Communication Standard and ASHP Guidelines on handling hazardous drugs (HDs)
- Understand proper technique when working with HDs in Biological Safety Cabinets.
- Discuss the proper use of close system devices for preparation and administration of HDs
- Describe the use of an HD spill kit and the precautions required when cleaning a spill
- Determine strategies to disinfect and decontaminate work surfaces
- Identify appropriate practices for safe handling of bodily fluids of patients receiving hazardous drugs.
- Discuss internal and external central venous catheters: types, indications, management, and complications.
- Review the criteria for management of common complications of central venous catheters.
- Discuss the major psychosocial issues relating to cancer and cancer treatment.
- Calculate drug dosages and cumulative doses based on the patient's weight or body surface area.
- Identify patient compliance issues with oral medications and its impact on the oncology patient.

<ul style="list-style-type: none"> <li>B. Treatment modalities</li> <li>C. Drug development process</li> <li>D. Ethical and legal issues</li> <li>2. Goals of Cancer therapy and response</li> <li>3. Principles of chemotherapy</li> <li>4. Principles of biotherapy</li> <li>5. Safe practice considerations</li> <li>6. Administration <ul style="list-style-type: none"> <li>A. Dose determination</li> <li>B. Pre-treatment care</li> <li>C. Routes of administration</li> <li>D. Immediate complications of cytotoxic therapy</li> </ul> </li> <li>7. Care of the patient receiving cancer therapy</li> <li>8. Case Studies</li> <li>9. Side effects of cancer therapy <ul style="list-style-type: none"> <li>A. Myelosuppression</li> <li>B. GI and mucosal side effects</li> <li>C. Alopecia</li> <li>D. Fatigue</li> <li>E. Cardiac toxicity</li> <li>F. Pulmonary toxicity</li> <li>G. Hemorrhagic cystitis</li> <li>H. Hepatotoxicity</li> <li>I. Nephrotoxicity</li> <li>J. Neurotoxicity</li> <li>K. Pancreatitis</li> <li>L. Alterations in Sexual and Reproductive function</li> <li>M. Cutaneous Reactions</li> <li>N. Ocular Toxicity</li> <li>O. Secondary Malignancies</li> </ul> </li> <li>14. Post-treatment Care</li> <li>15. Case Studies</li> </ul>	<ul style="list-style-type: none"> <li>• Define health care illiteracy.</li> <li>• Review key components for developing patient education materials.</li> <li>• Identify the role of the nurse in clinical trials.</li> <li>• Discuss the economics as related to chemotherapeutic and biotherapeutic agents</li> </ul> <p><b><u>Program Schedule for Wednesday, Thursday and Friday</u></b></p> <ol style="list-style-type: none"> <li>1. Drug calculations <ul style="list-style-type: none"> <li>A. Body surface area</li> <li>B. Drug dose calculation (based on bsa, auc and kg/mg)</li> <li>C. Drug dose modification</li> <li>D. Practice calculations</li> </ul> </li> <li>2. Antineoplastic agents: the specifics <ul style="list-style-type: none"> <li>A. Mechanism of action</li> <li>B. Preparation and administration</li> <li>C. Side effect</li> <li>D. Special precautions</li> </ul> </li> <li>3. Central venous catheters: nursing implications <ul style="list-style-type: none"> <li>A. Internal central venous catheters</li> <li>B. External central venous catheters</li> </ul> </li> <li>4. Psychosocial aspects</li> <li>5. Safe handling during preparation and administration <ul style="list-style-type: none"> <li>A. Personal protective equipment</li> <li>B. Closed system devices</li> <li>C. Strategies to disinfect and decontaminate work surfaces</li> <li>D. Proper technique when working with HDs in Biological Safety Cabinets.</li> <li>E. Aseptic technique</li> </ul> </li> <li>6. Introduction to clinical trials</li> <li>7. Promise and pitfalls of oral cancer treatments</li> <li>8. Blood and bone marrow transplant</li> </ol> <p>Test 1 – Drug Calculation, Central Venous Catheters, Clinical Trials, and Safe Handling</p>
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## ***Week Two***

### **CCCWFU Cancer Chemotherapy and Biotherapy Course**

Each participant will be paired with a preceptor in each of the following clinical areas:

- Outpatient Infusion
- Inpatient Chemotherapy Team
- Central Venous Catheter Care Team
- Clinical Coordinating.
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Test 2 – Drug side effect and special precautions

Test 3 - Final Exam

If requested, participants will have the opportunity to mix chemotherapy/biotherapy agents.

Acceptance into the five-day clinical practicum is contingent on meeting the following established criteria:

- Completed copy of the Nurse Sponsor Agreement
- A copy of the participant's nursing license from his/her state of employment.
- A certificate of professional liability insurance, in an amount no less than \$1 million per occurrence and \$3 million in the aggregate/year.
- Completed and signed copy of immunization record

#### **Target Audience and Prerequisite**

This course content is appropriate for nurses who are new to chemotherapy administration, as well as for those who want a comprehensive review.

#### **Program Location**

Outpatient Comprehensive Cancer Center  
Wake Forest University Baptist Medical Center

#### **Program Faculty**

Lisa Hodges, RN, BSN, OCN  
Director of Nursing Education and Research  
Coordinator and Primary Instructor

Pat Chatelet  
Associate Director of Patient Services

Karen Rike, RN, BSN, OCN  
Assistant Nurse Manager, Blood and Bone Marrow Transplant Coordinators

Sallie Strong, RN, BSN, OCN  
Assistant Nurse Manager, Catheter Care Team

Judy Lovelace, RN, OCN  
Clinical Research Nurse

**Course Fee:**

\$1000.

The course fee includes *Chemotherapy and Biotherapy Guidelines and Recommendation for Practice, 2<sup>nd</sup> Ed.*, additional course materials, Continuing Nursing Education Credits, and lunch on didactic days.

**Registration**

**Registration is limited to 10 participants per course. Return completed registration no later than 3 weeks prior to the course so that adequate quantity of course materials may be ordered.**

**For additional information contact:**

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**Click here for registration form**