## Objectives

Upon completion of this course, the participants will be able to:

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<th>Objectives</th>
<th>Content</th>
<th>Time Frame</th>
<th>Instructor</th>
<th>Method</th>
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<tr>
<td>Describe characteristics of cancer cellular kinetics vs normal cellular kinetics</td>
<td>Course Overview</td>
<td>8:00-8:15</td>
<td>Lorraine McEvoy DNP, MSN, RN, OCN</td>
<td>Course Packet</td>
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</table>
| Explain statistics related to cancer epidemiology: incidence, prevalence and mortality | Week 1  
- Carcinogenesis  
- Cell cycle & mitosis  
- Comparison of normal & malignant cells  
- Epidermal Growth Factors  
- Tumor growth patterns  
- Tumor angiogenesis and related treatment  
- Apoptosis  
- Normal Cellular Kinetics  
- Malignant Cellular Kinetics  
- Tumor Growth Patterns  
- Stages of Invasion & Dissemination  
- Criteria for causation of carcinogenesis | 8:00 – 9:00  
60 minutes | Lorraine McEvoy DNP, MSN, RN, OCN | Lecture Discussion Slides       |
| Discuss tumor staging and grading                                           | Week 2  
- Epidemiology  
- American Cancer Society’s leading incidence and mortality sites in men and women  
- Cancer risk factors  
- Levels of Prevention  
- Classification of Tumors | 8:00 – 9:00  
60 minutes | Lorraine McEvoy DNP, MSN, RN, OCN | Lecture Discussion Slides       |
<p>| Self Study Assignment #1                                                    | Week 2 Professional Issues in Oncology                                  | Self Learning Module             | Student &amp; Faculty                      | Self Learning Module  |</p>
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<tr>
<th><strong>Nursing</strong></th>
<th><strong>And Post Test</strong></th>
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<tr>
<td>Explain principles assessment, risk, screening, symptoms, spread of disease, treatment and nursing care for each major cancer type</td>
<td><strong>Week 3</strong></td>
<td>Lorraine McEvoy DNP, MSN, RN, OCN</td>
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<td>Prostate Cancer</td>
<td>Lecture Discussion Slides</td>
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<td>- Causes</td>
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<td>- Incidence and risk</td>
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<td>- Symptoms &amp; staging</td>
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<td>- The Gleason Score</td>
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<td>- Immunotherapy</td>
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<td>- Hormone Manipulation</td>
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<tr>
<td>Explain principles assessment, risk, screening, symptoms, spread of disease, treatment and nursing care for each major cancer type</td>
<td><strong>Week 4</strong></td>
<td>Lorraine McEvoy DNP, MSN, RN, OCN</td>
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<td>Breast Cancer</td>
<td>Lecture Discussion Slides</td>
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<td>- Causes</td>
<td>8:00 – 9:00</td>
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<td>- Risk &amp; Genetic Susceptibility</td>
<td>60 minutes</td>
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<td>- Early Warning Signs</td>
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<td>- Breast Cancer Prevention</td>
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<td><strong>Self Study Assignment #2</strong></td>
<td><strong>Week 4</strong></td>
<td>Lecture Discussion Slides</td>
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<td>Hormonal Therapy in Cancer Treatment for Men and Women</td>
<td>Lecture Discussion Slides</td>
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<td>Student &amp; Faculty</td>
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<tr>
<td>Explain principles assessment, risk, screening, symptoms, spread of disease, treatment and nursing care for each major cancer type</td>
<td><strong>Week 5</strong></td>
<td>Lecture Discussion Slides</td>
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<td>Lung Cancer</td>
<td>Lecture Discussion Slides</td>
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<tr>
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<td>- Incidence, prevalence, mortality</td>
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<td>- Risk factors</td>
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<td>- Genetic mutations</td>
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<td>- Types of disease</td>
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<td>- Nursing considerations</td>
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<td>Brain Tumors</td>
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<td>- Primary brain tumors</td>
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<td>- Stats and Facts</td>
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<td>Self Study Assignment #3</td>
<td>Week 5</td>
<td>Cancer Pain Management</td>
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<tr>
<td>Explain principles of assessment, risk, screening, symptoms, spread of disease, treatment, and nursing care for each major cancer type</td>
<td>Week 6</td>
<td>Gastrointestinal Cancers</td>
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<td>Diabetes</td>
<td>Treatment</td>
<td>Nursing considerations</td>
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<td>Colon Cancer</td>
<td>Risk Factors</td>
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<td>Prostate Cancer</td>
<td>Screening</td>
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<td>Lung Cancer</td>
<td>Diagnosis &amp; Staging</td>
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<td>Breast Cancer</td>
<td>Treatment</td>
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<tr>
<th>Self Study Assignment #4</th>
<th>Week 6</th>
<th>The Problem of Fatigue in Cancer</th>
<th>Self Learning Module</th>
<th>Student &amp; Faculty</th>
<th>Self Learning Module And Post Test</th>
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<tr>
<td>Discuss principles for the use of conventional chemotherapeutic agents in cancer treatment</td>
<td>Week 7</td>
<td>Chemotherapy, Biologic &amp; Targeted Therapies</td>
<td>8:00 – 9:00 60 minutes</td>
<td>Mary Elizabeth Davis MSN, RN, AOCNS</td>
<td>Lecture Discussion Slides</td>
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<tr>
<td>Understanding Chemo</td>
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<td>The Cell Cycle</td>
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<td>Approaches the Chemotherapy</td>
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<td>Explain the role of chemotherapy/biotherapy in cancer care, and common complications related to treatment with these modalities</td>
<td>Week 8</td>
<td>The role of Chemotherapy / biotherapy in Cancer Care</td>
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<tr>
<td>* Combination Chemotherapy  * Methods of Administration  * Types &amp; Classifications  * Alkylating Agents  * Nitrosoureas Agents  * Anti-tumor Antibiotics  * Antimetabolites  * Plant Alkaloids  * Topoisomerase Inhibitors  * Taxanes</td>
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<td>Complications of Chemotherapy/Biotherapy  * Exposure  * Spill  * Anaphylaxis  * Hypersensitivity Reactions  * Extravasation  * Flare Reaction</td>
<td>8:00 – 9:00 60 minutes</td>
<td>Mary Elizabeth Davis MSN, RN, AOCNS</td>
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<td><strong>Self Learning Assignment #</strong></td>
<td><strong>Week 8</strong></td>
<td><strong>Complimentary, Alternative and Integrative Modalities in Cancer Care</strong></td>
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<td>Discussed</td>
<td><strong>Week 9</strong></td>
<td>Radiation Therapy (RT)  * Overview of RT  * Delivery Sources  * Radiosensitivity  * Terms  * Occupational Safety  * Side Effects  * Skin Care Standards  * Patient Education  * Radiosensitizers</td>
<td>Self Learning Module</td>
<td>Student &amp; Faculty</td>
<td>Self Learning Module And Post Test</td>
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<td>8:00 – 9:00 60 minutes</td>
<td>Lorraine McEvoy DNP, MSN, RN, OCN</td>
<td>Lecture Discussion Slides</td>
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<td><strong>Self Learning Assignment #</strong></td>
<td><strong>Week 9</strong></td>
<td><strong>Week 10</strong></td>
<td><strong>Week 11</strong></td>
<td><strong>Week 12</strong></td>
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<td><strong>Hypercalcemia in Cancer</strong></td>
<td><strong>Radioprotectants</strong></td>
<td><strong>Hematopoiesis &amp; Myelosuppression</strong></td>
<td><strong>Sepsis and Septic Shock</strong></td>
<td><strong>Hematologic Malignancies</strong></td>
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<td><strong>Discuss the role of the</strong></td>
<td><strong>Week 10</strong></td>
<td><strong>Hematopoiesis</strong></td>
<td><strong>Definition</strong></td>
<td><strong>Lymphoma Pathology</strong></td>
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<td><strong>Hematopoietic system, indicators</strong></td>
<td><strong>Myelosuppression</strong></td>
<td><strong>Pathophysiology</strong></td>
<td><strong>Pathophysiology</strong></td>
<td><strong>Hodgkins Lymphoma</strong></td>
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<td><strong>of myelosuppression and common</strong></td>
<td><strong>Hematopoiesis</strong></td>
<td><strong>Risk Factors</strong></td>
<td><strong>Hodgkins Lymphoma</strong></td>
<td><strong>Non-Hodgkins</strong></td>
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<td><strong>diagnostic studies R/T an immune-</strong></td>
<td><strong>Cytokines</strong></td>
<td><strong>SIRS</strong></td>
<td><strong>Presentation, Staging &amp;</strong></td>
<td><strong>Presentation, Staging &amp;</strong></td>
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<td><strong>compromised host</strong></td>
<td><strong>Cell Lines</strong></td>
<td><strong>Early Signs &amp; Symptoms</strong></td>
<td><strong>Diagnosis</strong></td>
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<td><strong>Diagnostic Studies</strong></td>
<td><strong>Late Signs &amp; Symptoms</strong></td>
<td><strong>Treatment</strong></td>
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<td><strong>ANC</strong></td>
<td><strong>Assessment</strong></td>
<td><strong>Leukemia</strong></td>
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<td><strong>Neutropenia</strong></td>
<td><strong>Pertinent Labs</strong></td>
<td><strong>Diagnosis</strong></td>
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<td><strong>Anemia</strong></td>
<td><strong>Biochemical Markers</strong></td>
<td><strong>Classifying Leukemia</strong></td>
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<td><strong>Thrombocytopenia</strong></td>
<td><strong>Medical Management</strong></td>
<td><strong>Clinical Manifestations</strong></td>
<td><strong>Clinical Manifestations</strong></td>
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**Self Learning Module**: 8:00 – 9:00
**Self Learning Module And Post Test**: 60 minutes

**Student & Faculty**: Lorraine McEvoy
**DNP, MSN, RN, OCN**

**Lecture Discussion Slides**
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<th>Self Learning Assignment #</th>
<th>Week 12</th>
<th>Blood Transfusion Therapy</th>
<th>Self Learning Module</th>
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<tr>
<td>Describe one strategy of nursing management for each common complication of treatment or disease</td>
<td><strong>Week 13</strong></td>
<td>GI Toxicities with Cancer Treatment</td>
<td>8:00 – 9:00 60 minutes</td>
<td>Lorraine McEvoy DNP, MSN, RN, OCN</td>
<td>Lecture Discussion Slides</td>
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|  |  | • Alterations in Nutrition  
  • Taste alterations  
  • Xerostomia  
  • Mucositis  
  • Anorexia  
  • Dysphagia  
  • Nausea / vomiting  
  • Electrolyte imbalance  
  • Cachexia  
  • Ascites | | | |
|  | **Week 14** | Cardiopulmonary Complications of Cancer | 8:00 – 9:00 60 minutes | Lorraine McEvoy DNP, MSN, RN, OCN | Lecture Discussion Slides |
|  |  | • Dyspnea  
  • Pleural effusion  
  • Pericardial effusion  
  • Cardiac tamponade  
  • Superior vena cava syndrome  
  • Treatments  
  • Symptom Management  
  • Medical Management  
  • Nursing Care | | | |
<p>| Self Learning Assignment # | Week 14 | Sexuality and Cancer | Self Learning Module | Student &amp; Faculty | Self Learning Module And Post Test |
| Describe one strategy of nursing management for each neurologic | <strong>Week 15</strong> | Alterations in Neurologic Function | 8:00 – 9:00 60 minutes | Mary Elizabeth Davis | Lecture Discussion |</p>
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<th>Self Learning Assignment #</th>
<th>Week 15 Hospice and Palliative Care</th>
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<tr>
<td>Explain the pathophysiology and clinical manifestations of each metabolic oncologic emergencies</td>
<td>Week 16 The Metabolic Oncologic Emergencies: 1. Identify risk factors 2. Pathophysiology 3. Signs and symptoms 4. Medical and nursing management • DIC (disseminated intravascular coagulation) • TLS (tumor lysis syndrome) • SIADH (syndrome of inappropriate anti-diuretic hormone)</td>
<td>8:00 – 9:00 60 minutes</td>
<td>Lorraine McEvoy DNP, MSN, RN, OCN</td>
<td>Lecture Discussion Slides</td>
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<td>Discuss concepts of cancer survivorship, national guidelines and the role of the nursing professional</td>
<td>Week 17 Survivorship • National Cancer Act • Who is a cancer survivor? • IOM report on Survivorship • Component of survivorship care • Surveillance • Laws protecting cancer survivors • Quality of life</td>
<td>8:00 – 9:00 60 minutes</td>
<td>Mary Elizabeth Davis MSN, RN, AOCNS</td>
<td>Lecture Discussion Slides</td>
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<td>Demonstrate the use of one concept learned to clinical scenarios</td>
<td>Week 18 Practice questions for OCN exam</td>
<td>8:00 – 9:00 60 minutes</td>
<td>Lorraine McEvoy DNP, MSN, RN, OCN</td>
<td>Slides Discussion</td>
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Please note: This course is not developed, provided, sponsored, or endorsed by ONCC, and the content may or may not be reflective of an actual certification test. Participation in a review course does not guarantee successful completion of a certification test.