

**Northern Marianas College**  
**CURRICULUM ACTION REQUEST**

**Effective Semester / Session:** Fall 2012

**Type of Action:**

- New
- Modification
- Move to Inactive (Stop Out)
- Cancellation

**Course Alpha and Number:** ED 247

**Course Title:** Medical Implications of Special Education

**Reason for initiating, revising, or canceling:**

Move from Inactive (Stop Out) to Active.

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Roy Greenland

Proposer

Date


8/13/12

  
Jose Herrera, Acting Director, School of Education

Department Chair

Date

8/13/12

  
Barbara Merfalen

Dean of Academic Programs and Services

Date

8.13.12

# Northern Marianas College

## Course Guide

**Course:** ED 247 Medical Implications of Special Education

1. **Department**  
School of Education
2. **Purpose**  
Many students with special needs have medical conditions associated with their disability. This course provides prospective special educators with a functional knowledge of common medical conditions and diseases frequently associated with persons with disabilities.
3. **Description**
  - A. **Required/Recommended Textbook(s) and Related Materials**  
There are no required textbooks. Students will be provided with updated course materials related to each medical condition and disease.
  - B. **Contact Hours**
    1. **Lecture:** 3 hours per week / 45 hours per semester
    2. **Lab:**
    3. **Other:**
  - C. **Credits**
    1. **Number:** 3
    2. **Type:** Regular degree units
  - D. **Catalogue Course Description**  
This course provides prospective special educators with a functional knowledge of common medical conditions and diseases frequently associated with persons with disabilities. Prerequisite: A grade of C or higher in EN 101. (Offered Fall and Spring)
  - E. **Degree or Certificate Requirements Met by Course**  
This is a required course for all education majors with a concentration in Special Education.
  - F. **Course Activities and Design**  
This course may incorporate any or all of the following: Short lecture, discussions, videos, online activities, group activities, student projects, presentations, written assignments, field experience, reflection papers, and activities for use in the classroom.

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**Course:** ED 247 Medical Implications of Special Education

**4. Course Prerequisite(s); Concurrent Course Enrollment; Required English/Mathematics Placement Level(s)**

Prerequisite(s): A grade of C or higher in EN 101.

**5. Estimated Cost of Course; Instructional Resources Needed**

Cost to the Student: Tuition for a 3-credit course and any pertinent instructional material fees.

Cost to the College: Instructor's salary, Internet, and Curriculum Resource Center (CRC) resource materials.

Instructional resources needed for this course include Internet, and Curriculum Resource Center (CRC) resource materials.

**6. Method of Evaluation**

Student grades will be based on the regular letter grade system as described below:

- A: Excellent – grade points: 4.0;
- B: Above average – grade points: 3.0;
- C: Average – grade points: 2.0;
- D: Below average – grade points: 1.0;
- F: Failure – grade points: 0.0.

NMC's and SOE's grading and attendance policies will be followed.

**7. Course Outline**

This is a topical outline and does not necessarily indicate the sequence in which the material will be presented.

- 1.0 Down's Syndrome / Tri-Somy 21
  - 1.1 Congenital heart defects
  - 1.2 Atlanto-axial defect
  - 1.3 Upper respiratory complications
  - 1.4 Short-term memory complications
  
- 2.0 Seizure Disorders
  - 2.1 Neurological seizures
  - 2.2 Idiopathic seizures
  - 2.3 Pharmacology of seizure control

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- 3.0 Neural Tube Defects
  - 3.1 Encephalocele
  - 3.2 Spina Bifida
  - 3.3 Hydrocephalous
  
- 4.0 Autism Spectrum Disorders
  - 4.1 Pervasive developmental disorder
  - 4.2 Attention Deficit Disorder (ADD)
  - 4.3 Asperger's Syndrome
  - 4.4 Fragile X Syndrome
  - 4.5 Pharmacology
  
- 5.0 Muscular-Skeletal Conditions
  - 5.1 Cerebral palsy
  - 5.2 Muscular dystrophy
  - 5.3 Multiple sclerosis
  - 5.4 Pharmacology
  
- 6.0 Psychiatric Conditions
  - 6.1 Depression
  - 6.2 Psychosis and schizophrenia
  - 6.3 Bi-polar affective disorder
  - 6.4 Pharmacology
  
- 7.0 Emotional Disorders
  - 7.1 Conduct disorders
  - 7.2 Personality disorders
  - 7.3 Adjustment disorders
  - 7.4 Phobias
  - 7.5 Pharmacology
  
- 8.0 Hematological Conditions
  - 8.1 Leukemia
  - 8.2 Hemophilia
  - 8.3 Physical intervention
  - 8.4 Pharmacology
  
- 9.0 Low Incidence Syndromes and Conditions
  - 9.1 Tuberous sclerosis
  - 9.2 Microcephaly
  - 9.3 Hurlers' Syndrome
  - 9.4 Tourette's Syndrome

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- 10.0 Infectious Diseases
  - 10.1 HIV/AIDS
  - 10.2 Hepatitis
  - 10.3 Fluid management practice

### 8. Instructional Goals

This course will introduce students to:

- 1.0 Down's Syndrome / Tri-Somy 21;
- 2.0 Neural tube defects;
- 3.0 Seizure disorders;
- 4.0 Pre-natal conditions due to chemical trauma;
- 5.0 Autism Spectrum Disorders;
- 6.0 Muscular-skeletal conditions;
- 7.0 Psychiatric conditions;
- 8.0 Emotional disorders;
- 9.0 Hematological conditions;
- 10.0 Low incidence syndromes and conditions;
- 11.0 Infectious diseases;
- 12.0 The use of technology in instruction; and
- 13.0 Service learning as a method of enhancing learning and application of course activities and objectives.

### 9. Student Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1.0 Define and describe Down's Syndrome / Tri-Somy 21;
- 2.0 Define and describe neural tube defects;
- 3.0 Define and describe seizure disorders;

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- 4.0 Define and describe pre-natal conditions due to chemical trauma;
- 5.0 Define and describe Autism Spectrum Disorders;
- 6.0 Define and describe muscular-skeletal conditions;
- 7.0 Define and describe psychiatric conditions;
- 8.0 Define and describe emotional disorders;
- 9.0 Define and describe hematological conditions;
- 10.0 Define and describe low incidence syndromes and conditions;
- 11.0 Define and describe infectious diseases;
- 12.0 Use computer, multimedia, and electronic technology in instruction;  
and
- 13.0 Participate in service learning to enhance learning and application of  
course activities and objectives.

## **10. Assessment Measures**

Assessment of student learning may include, but not be limited to, the following:

- 1.0 Class participation;
- 2.0 Student presentations and activities; and
- 3.0 Midterm and final examinations.