

## **EFFECTIVE: SEPTEMBER 2004** CURRICULUM GUIDELINES

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A: Division: INSTRUCTIONAL

Effective Date:

## SEPTEMBER 2004

B: Department / GEOGRAPHY Program Area: FACULTY OF HUMANITIES & SOCIAL SCIENCES

If Revision

Revision

New Course

Semester Credits **Descriptive Title** F: Calendar Description: eteorology, climatology and biogeography. In Geography 1110, energy concepts and radiation lawsareused to mamine atmospheric processes and patterns. Oncepts examined includeatmospheric and oceaic circulation, wether elements and patterns severe weather, dhate patterns and patt and future climate change Plant and animal distribution patterns and their causes are alsostudied along with hunan impacts on the atmosphere and biosphere. Allocation of Contact Hours to Type of Instruction / G: H: Course Prerequisites: Learning Settings NONE Primary Methods of Instructional Delivery and/or Learning Settings: Course Corequisites: I: Lecture and Lab NONE Number of Contact Hours: (per week /semester for each descriptor) J: Course for which this Course is a Prerequisite 2 hrs. per week / semester Lecture: GEOG 2210, GEOG 2230, GEOG 2321 2 hrs. per week / semester Lab: Number of Weeks per Semester: 15 Maximum Class Size: K: 35 PLEASE INDICATE: L: Non-Credit College Credit Non-Transfer

SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (

College Credit Transfer:

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Course Content Cont'd.

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- 7. Moisture in the Atmosphere
  - Indices of water vapour content
    - Methods and forms of condensation
    - Mechanisms and forms of precipitation
- 8. Adiabatic Processes and Stability
  - Diabatic and adiabatic processes
  - Lapse rates
  - Concept and types of stability
- 9. Air Masses, Fronts, Mid-latitude Cyclones
  - Air mass formation, classification and modification
  - Front types, formation and characteristics
  - Development, evolution and movement of mid-latitude cyclones
  - Anticyclones
- 10. Severe Weather
  - Characteristics and life-cycles of air mass and severe thunderstorms
  - Tornado formation, characteristics and dimensions
  - Hurricane development, characteristics, structure, forecasts and damage
- 11. Global Climates
  - Köppen and Thornthwaite climate classification schemes
  - Patterns and characteristics of A, B, C, D, E and H climates
- 12. Biogeography
  - Ecological biogeography and its relationship to climatic patterns
  - Abiotic and biotic influences on primary productivity in various ecosystems
  - Trophic relationships in ecosystems

## Q: Means of Assessment:

The evaluation will be based on course objectives and