Inquiry-based learning

SCIENCE ON STAGE 2013 SŁUBICE FRANKFURT/ODER

MICRO INTERNSHIP RESEARCH IN NATURAL SCIENCE

PEDAGOGICAL DESIGN : FROM INTENTION TO ACTION

HUGUETTE THIBEAULT M.Education, M.Sc.

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Biology teacher

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MINISTERIAL PROGRAM: GENERAL GOALS AND COMPETENCIES

- ❑ DEVELOP AUTONOMY / ATTITUDES / VALUES SOUGHT AFTER IN SCIENCE / MAKE LINKS BETWEEN SCIENCE AND SOCIETY
- ❑ APPLY SCIENTIFIC APPROACH

COMPETENCY-BASED LEARNING / PROGRAM APPROACH

- ❑ ACQUIRE AND INTEGRATE MULTI-DISCIPLINARY KNOWLEDGE
- ❑ DESCRIBE THE PROBLEM SOLVING PROCESS
- ❑ DEAL WITH NEW SITUATIONS BASED ON ACQUIRED KNOWLEDGE

GENERAL FRAMEWORK: CHOICE OF THEMES

E.G.: CELLULAR AND MOLECULAR BIOLOGY, MICROBIOLOGY, IMMUNOLOGY, GENETIC, BIOTECHNOLOGY

COURSE OUTLINE: MICROBIOLOGY: EXPERIMENTAL AND RESEARCH

- ❑ **PRE- MICRO INTERNSHIP :** INTRODUCTION TO *E. coli* O157-H7, HIV, QUORUM SENSING, MICROBIOTA, BIOFILMS…
- ❑ **MICRO INTERNSHIP** : 10 SUPERVISED HOURS IN A RESEARCH LAB / TEAM OF 2
- ❑ **POST- INTERNSHIP:** REPORT AND SUMMARY WRITING, ORAL PRESENTATION AND TERMINAL COMPETENCY EXAM