

COURSE SYLLABUS FORM
American University of Beirut
Faculty of Arts and Sciences
Department of Education

Course Number: EDUC 247

Title: **Development of Net-Based Educational Applications**

1. Course Learning Outcomes

The students' contribution in this course depends on their awareness of educational topics, and the creativity in designing and producing educational activities. It is their task to conceptualize, design, and produce educational materials that have the potential to improve the process of teaching and learning through computers and various kinds of networks including the internet. Students are expected to produce educational packages and answer to essays about:

- **The foundations of instructional design;**
- **Selecting the media that suit a given educational task;**
- **The various means and strategies for delivering instructional materials;**
- **The potential and the limits of using Internet technologies in education;**
- **Selecting educational topics that are suitable for computerized applications;**
- **Planning for an educational web site;**
- **Gathering and preparing text and images to be included in computerized applications;**
- **Editing texts and images to suit the web site design and the educational task;**
- **Gathering and preparing multimedia elements;**
- **Editing multimedia elements to suit the web site design and the educational task;**
- **Selecting navigation tools, organizing files, and creating templates;**
- **Assembling the pages in a well structured web site;**
- **Testing and posting the site in appropriate locations that can be accessed by students; and**
- **Responding in writing to questions about the various aspects of using computer-based educational applications.**

2. Resources Available to Students:

Hardware: The Education Computer Lab;

Software: Macromedia Authorware, Dreamweaver, and Flash.

Printed Materials: Selected readings from:

- Title: Instructional Design (2nd Edition), authors: Patricia Smith & Tillman Ragan, publisher: John Wiley & sons, New york, year of publication: 1999.
- Title: The Web Wizard's Guide to Web Design, author: James Lengel, publisher: Addison Wesley, Boston, year of publication: 2002.

- Title: Bringing the Internet to School, Lessons from an Urban District, authors: Janet Ward Schofield & Ann Locke Davidson, publisher: Jossey Bass, San Francisco, year of publication: 2002.

3. Grading Criteria

Projects: 60%

Exams: 30%

Class participation: 10%.

Projects will be assessed in light of the following criteria:

- Package content management (i.e. organization, file size, etc.)
- Proper media selection
- Mastery of techniques (i.e. image manipulation, linking, interactivity aspects, graphic layout, etc.)
- Educational effectiveness
- Individual efforts in improving the selected media
- Neatness
- Practicality of the developed applications.

4. Schedule

Topics	No of Meetings
Introduction to the Course	1
Instructional Design Foundations	1
Instructional Strategies	1
Methods of Delivering and Managing Educational Materials	1
Production of Instructional Materials	1
Selecting Educational Topics from the Curriculum	2
Planning for an Educational Application	1
Structuring the Application	4
Gathering, Editing, and Implementing Text and Numbers	2
Gathering, Editing, and Implementing Images	4
Gathering, Editing, and Implementing Multimedia Elements	6
Testing Applications	1
Publishing Applications	1
Finalizing Projects	5
Presentations	1
Total Lectures	32