



CS6460: Educational Technology

Guidelines for Individualized Academic Curriculum and ITS Implementation for K-12 Students: a Resource Guide

Project Abstract

Intelligent Tutoring Systems (ITSs) and Individualized Education Plans (IEPs) have existed for decades in education. Researchers, through meta-analyses, have demonstrated the efficacy of ITS(s), irrespective of field of study (technical and non-technical subjects) in K-12 education (Ma et al, 2014). Modern ITS can evaluate and identifying a student's emotional state and meta-cognitive skills, such as self-monitoring, self-explanation, etc (Conati, 2009). Since the 1970s, IEPs are, by law, implemented for students which are covered by IDEA (Individuals with Disabilities Education Act). An IEP is constructed annually by educators, administrators, and parents of special education students to define specific academic and functional goals per student.

Building on existing research and education practice, this site offers a resource for any individual constructing a curriculum for a K-12 student, looking to implement ITS(s) within a field of study. This site is **built** for **parents** / **tutors** / **teachers** and **students** to provide: **(1) a background on IEP history and usage; (2) guidelines for planning a student's curriculum with ITS(s) implemented; (3) a repository and search tool for commercially available ITS.**

Site Overview

❖ When building an individualized curriculum, use the guidelines as a reference.

❖ Subpages included:

- ❖ Guidelines
- ❖ Background Information
- ❖ Resources/Assessment
- ❖ Research Log

❖ Use the ITS Search page to find a solution.

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Home

CS6460: GIACII-K12 – Card Prototype



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Academic Planning

- ☐ Background Information
- ☐ Guidelines
- ☐ Assessment Links
- ☐ Research Log

ITS Search

- ☐ Background Information
- ☐ Search Tool
- ☐ Full School List
- ☐ Research Log

More

- ☐ GIACII-K12 is...
- ☐ GIACII-K12 is not...
- ☐ Terminology
- ☐ Additional Resources

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