



IMPROVING UNIVERSITY TEACHING 1995



**Committee for the
Advancement of University Teaching**

NATIONAL TEACHING DEVELOPMENT GRANT PROJECTS

December 1994

Other Health Sciences

science, nursing, medicine and allied health areas will learn about the kidney's anatomy, physiology, patho-physiology and diseases. The complexity of this organ will be progressively revealed, so as not to overwhelm students with details at any one time. The nursing module will assist students in applying the theoretical knowledge to clinical nursing practice, as it exposes clinical cases and requires students to arrive at a rationale for the symptoms. Through the modules users have the opportunity to review any aspect which they feel is relevant for the case, proceeding in a problem based manner. Science students will see the application of their learning to the health professions.

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99. Cardiopulmonary resuscitation: integrated multimedia teaching and learning packages

This project will significantly improve the quality of learning materials available for cardiopulmonary resuscitation (CPR) by producing integrated and cost effective teaching and learning packages. Existing materials for CPR do not have a pedagogical focus and do not simulate real life situations, or adequately portray the complexity of this life saving activity. Our project addresses these issues, and offers notable improvements by providing learners with opportunities to develop expert knowledge, and problem-solving and decision making skills within an educational framework. The packages, developed for flexible learning modes, will be used extensively in pre and post registration nursing courses as well as other health education courses, both in Australia and overseas.



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100. Effective multi-level diabetes education for health professions

This project seeks to reduce the tedium of teaching repetitive materials. A self-paced learning and evaluation tool will be developed for introductory-level university students, health workers, and people with diabetes (there are hundred newly diagnosed each year in Australia) and their families who require considerable information to effectively manage a diabetic condition. A user-tested multimedia teaching program on compact disk (CD) will provide students in pre-professional health programs with a tool for their own learning and

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for patient education; multiple entry points enable the lecturer and student to tailor the program to meet individual needs.

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101. Vocational rehabilitation: a learning resource

This project will extend the 1994 CAUT funded project "Assessing client's work capacity" to include problem-based learning materials on case management in vocational rehabilitation. Twenty case studies, based on a range of client criteria, will be entered into this extended self-assessment computer resource, allowing student to practise making management decisions. This will include selecting appropriated assessment methods, identifying pertinent aspects of the various legislative acts and identifying key players and their roles in the rehabilitation process. In-built feedback to advise students of the possible consequence(s) of their response(s), will be provided.



Host institution Curtin University of Technology
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102. Blood cells revisited by interactive multimedia

The ability to correctly identify normal and abnormal cells in a blood film and to diagnose haematological disease is an essential skill for medical scientists. Training has conventionally been done in the laboratory with microscopy, supplementary notes and tutorial sessions. This project will produce an innovative, interactive multimedia package which will teach, reinforce and enhance skills by the use of simulated clinical case studies. This program will allow the student to access blood cell images and seek immediate on-screen tutorial help, as well as providing interactive access to further test results and clinical history.

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