

ROWAN UNIVERSITY CURRICULUM PROPOSAL

(1)

PROPOSAL TITLE: Technology and Assessment in Health and Exercise Science

CHECK APPROPRIATE: UNDERGRADUATE GRADUATE SEMESTER HOURS

SPONSOR(S): Dr. Richar Fopeano, Dr. Mary Putman

DEPARTMENT/TELEPHONE # Health and Exercise Science 4785

CHECK ONE: COURSE MINOR PROGRAM CONCENTRATION SPECIALIZATION
 ACHIEVEMENT CERTIFICATE CERTIFICATION PROGRAM MAJOR PROGRAM

Step #1 (Department)

Approved (Date) 10/23/97

Not Approved (Date)

R. Franz
Dept. Curriculum Chr.

10/23/97
Reviewed (Date)

Jama Burd
Dept. Chr.

Step #2 (Receipt)

SCC# 97-98-121

10-24-97
Date Received Senate

Senate Curriculum Chr.

Step #3 (School)

Reviewed Date: 11/3/97

Recommend to Approved

Recommend NOT to Approve

Forward for Open Hearing:

WITHOUT Reservations

WITH Reservations:

Comments:

F. Reeves
School Committee Chr.

Step #4 (Academic Dean): Recommended NOT Recommended Conditionally Recommended (See Comments)

Comments:

Dean Signature/Date [Signature] 3/2/98

Step #5 (Senate Curriculum Committee): Open Hearing Date: 2/3/98 Approved by Curriculum Committee Date 3/23/98

Returned to Sponsor(s) for the following reason:

Step #6 (Senate) Date announced/voted on at Senate 5/8/98 If voted on: Approved NOT Approved

Forwarded to Executive Vice President/Provost _____

Senate Curriculum Committee chair Signature/Date: A. Reeves 5/8/98

Step #7 (Executive Vice President/Provost): Date Received _____

___ Approved

___ NOT Approved If no, reasons are as follows:

Student Credit Hours _____

Faculty Load Hours _____

Equalized Credit Hours _____

Official Copy & Approval Sheet Filed (Date) 1/26/92

Executive Vice President/Provost Signature CAR [Signature]

Registrar

Date Approved Course Description Received 1/26/92

Hegis Taxonomy and Course Number Assigned 126/92

Date/Signature of Registrar 1/26/92 [Signature]

Notification Forward:

_____ Senate Curriculum Committee Chairperson

_____ Department Chairpersons

_____ Academic Dean(s)

_____ Registrar

_____ Sponsor(s)

COURSE PROPOSAL:
Technology and Assessment in Health and Exercise Science

1. DETAILS:

- a. **Course Title:** Technology and Assessment in Health and Exercise Science
- b. **Sponsors:** Department of Health and Exercise Science
Dr. Richard Fopeano, Curriculum Chairperson
Dr. Mary L. Putman
- c. **Credit Hours:** Three semester hours
- d. **Course Level:** Sophomore (200 level)
- e. **Prerequisites:** Computer Literacy or comparable introductory computer course
- f. **Suggested Time and Scale of Implementation:** Fall 1999 and each semester thereafter. A minimum of two sections will be offered each semester.
- g. **Curricular Effect:** This will be a required course for all students majoring in Health and Exercise Science. This will replace Tests and Measurements in Health and Physical Education (0835.455) which is a required course for students in the Teacher Certification Specialization. It will be a new offering for students in the Exercise Science Specialization.
- h. **Adequacy of the Present Staff/Space...:** Several faculty members have the expertise to teach an introductory course in technology and assessment as it relates to Health and Exercise Science. Current computer lab facilities are adequate.
- i. **Library Resources:** The library resources are adequate to meet the needs for this course. The availability of software and computers will need to be done in collaboration with David Kapel, Dean of the College of Education.

2. RATIONALE:

The Department of Health and Exercise Science prepares students in the areas of athletic training, health promotion and fitness management, and teacher certification. Each specialization is undergoing major curricular revisions in response to recommendations from on-campus consultants and national accreditation standards. The Rowan University Strategic Plan also emphasizes the need for students to embrace technology. It is strongly recommended that all pre-professional students in the Department of Health and Exercise Science be comfortable with using technology for organizing information, amplifying presentation, developing written documents, assessing clients/students, gathering information, and completing research. Students are expected to have a prerequisite of basic computer literacy since this course will focus on technological applications specific to our discipline.

3. ESSENCE OF THE COURSE:

a. Objectives:

Students will:

1. ...demonstrate knowledge of the uses of computers and technology in schools, athletic training facilities, health and fitness industries, as well as in personal and academic endeavors.
2. ...operate a multimedia computer system to successfully install, review, and evaluate software packages.
3. ...use computers to support problem solving, data collection, information management, communications, presentations and decision making.
4. ...use computer-based technology to access information and enhance personal and professional productivity.
5. ... discuss and manipulate various non-computer media used to deliver information to students and clients.
6. ...use statistical software to define, compute and interpret data to include measures of central tendency, variability, relative position and relationship.
7. ...review different tests and instrumentations used to measure in health and exercise science.
8. ...conduct a research project which requires formulating a hypothesis, selecting appropriate instrumentation, following correct testing protocol, summarizing data, and deriving appropriate conclusions from the data.
9. ...practice responsible, ethical and legal use of technology and computers and the respective software.
- 10...encourage students to embrace technology and computers and the contributes they make to lifelong learning.

b. Topical Outline/Content

1. Use, Review and Evaluate Software Specific to Health and Exercise Science...
 - a. Assessment and Evaluation in Health and Exercise Science.
 - b. Referencing (i.e. CD ROM)
 - c. Word Processing
 - d. Spreadsheets
 - e. Database
 - f. Presentations (Hyperstudio, Printshop, Power Point...)
 - g. Desktop publishing
 - h.. Other appropriate software
2. Use of Peripheral Devices
 - a. Scanners
 - b. Digital Cameras
 - c. Camcorders
 - d. Videodiscs
 - e. CD ROM
 - f. Other peripheral devices

3. Internet

- a. Electronic Mail
- b. Access to the Internet
- c. Search Engines
- d. Uses for Research
- e. Uses for Communication
- f. Other appropriate items.

4. Non-computer Media

- a. VCR and Video Projectors
- b. Bulletin Boards
- c. Overhead Projectors
- d. Overhead Transparencies
- e. Projection Screens
- f. Other appropriate items.

5. Basic Statistics

- a. Measures of Central Tendency
- b. Measures of Relationship
- c. Measures of Variability
- d. Measures of Relative Positions

6. Review different tests/instrumentation used in health and exercise science.

- a. Applicable to athletic training
- b. Applicable to Health promotion and fitness management
- c. Applicable to Teacher certification

7. Research Project

- a. Statement of the Problem
- b. Review of Literature (traditional and computer-based searches)
- c. Test Administration Protocol
 - (1) demonstrate ability to make informed test selection
 - (2) demonstrate ability to use correct test administration procedures
- d. Statistical Analysis of Data
- e. Summary and Conclusions

c. Evaluation and Grading Procedures

Review and evaluation of software packages
In-class assignments using computers and technology
Preparation of computer/technology based presentation
Test selection and administration project(s)
Statistical Analysis Project(s)
Research Project

d. Course Evaluation:

The course will be evaluated at the conclusion of each semester through student evaluations, teacher (self) evaluation, and classroom observations conducted by a qualified member of the Department of Health and Exercise Science.

4. Letters of Consultation: None

CATALOGUE DESCRIPTION:

Technology and Assessment in Health and Exercise Science 3 semester hours

Prerequisite: Computer Literacy (1701.100) or equivalent course, plus passing of Computer Competency Test

This course will prepare students in the Department of Health and Exercise Science to use computers and technology for organizing information, amplifying presentation, developing written documents, assessing client/students, gathering information, and completing research. Students will evaluate software, use peripheral devices, explore internet applications, and use non-computer media applications as they apply to their discipline. An introduction to simple statistical designs will also be a component of this course.

Memo to: R. Fopeano



From: Seth Bergmann, Interim Chairperson, Computer Science Dept.

Date: April 22, 1998

Subject: Course Proposal: "Technology and Assessment in Health and Exercise Science"

Thank you for consulting with my department on your course proposal. We are always pleased to see other departments making an effort to incorporate the effective and appropriate use of technology in the curriculum.

The only question I have is in regard to the first three topics in your course outline:

1. Application software
2. Peripheral devices
3. Internet

Since these topics are covered in Computer Literacy, which is a prerequisite for this course, I am not sure I understand why it is necessary to repeat them here. The time could well be used for other material.

Aside from that particular point, you have our full support for this course proposal.

Copy: Curriculum Committee

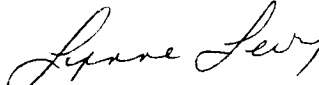


Schaub Instructional Technology Center

Lynne Levy, Ed.D., Coordinator

(609) 256-4711 • levy@rowan.edu

To: Richard Fopeano
Mary Putnam

From: Lynne Levy 

Re: Technology Course Proposal

Date: December 10, 1997

I am pleased to see you have included the course *Technology and Assessment in Health and Exercise Science* as one of the courses in your new core curriculum for all Health and Exercise Science majors. It is timely, as the University stresses the importance of *Life in a Technological Society* and NCATE, the College's accreditation agency for teacher education, is putting a high priority on students receiving a strong technology background.

The course seems to be technologically sound, covering all of the areas needed by your major. Some of the components are modules Frank Orlando and I currently do with your classes. We will continue to assist wherever you feel it necessary.

I am, however, somewhat concerned with lab availability, equipment, and software. Computer workshops for all education majors are held in the Schaub Computer Lab in Robinson. While I understand your class does not need a computer lab every day, I doubt that we could schedule the class in Schaub, as it is currently used many periods as a teaching lab, in addition to being open for student use. Availability would depend on the number of sections of your course that are offered each semester. As you noted, software will need to be purchased (lab, network, or site licenses) and this can become expensive. You also mention the use of other technologies such as scanners, cameras, camcorders, etc. We have some of these available; the extent of your utilization will determine whether additional equipment must be purchased.

Again, I feel this is a much needed course. I hope we will be able to work out the resources so you will be able to offer the course.

cc: Dean David E. Kapel