

OBE AND ICT'S IN HE

ICT in Higher Education

March 2010

Sandton

**Izak Smit,
CPUT
Cape Town**

OBE

Outcome-based education (OBE) is an education reform model largely aimed at primary and secondary education ("K-12" in the United States and Australia) which is intended to objectively measure student performance.

Wikipedia English

OBE

Outcome-based education (OBE) is a recurring education reform model. It is a *student-centred learning philosophy* that focuses on empirically measuring student performance, which are called *outcomes*. OBE contrasts with traditional education, which primarily focuses on the resources that are available to the student, which are called *inputs*.

Wikipedia

Historical Development of OBE

1. **Mastery Learning**

Acquisition of cognitive, affective and psychomotor skills under appropriate conditions

2. **Competence-based education**

Acquisition of a group of skills that bring about competence in a specific field, which is assessed against pre-set benchmarks defined by industry

3. **Outcomes-based education**

Demonstration of acquired generic skills in different contexts, that are assessed against pre-set criteria agreed upon by all stakeholders

OBE on Learning

Outcomes Based Education focuses on student learning by:

- Using learning outcome statements to make explicit what the student is expected to be able to know, understand or do;
- Providing learning activities which will help the student to reach these outcomes;
- Assessing the extent to which the student meets these outcomes through the use of explicit assessment criteria

(Bezinovic 2005)

Bloom's Taxonomy

Create

Evaluate

Analyze

Understand

Remember

Lower order to
Higher order
Thinking Skills

Learning Outcomes

- ▣ All Educators have to re-curriculate using:
 - Unit standards
 - Learning outcomes
- ▣ Identify and incorporate CCFO's

Critical Cross-field Outcomes

- ▣ SAQA defines CCFOs as “those generic outcomes that inform all teaching and learning”
- ▣ CCFOs 'are those outcomes deemed critical for the development of the capacity for life-long learning'.

CCFO 1

- ▣ Identify and solve problems in which responses demonstrate that responsible decisions using critical and creative thinking have been made.
- Student-centred approaches to learning-

CCFO 2

- ▣ Work effectively with others as a member of a team, group, organisation, community
- Group assignments -

CCFO 3

- ▣ Organise and manage oneself and one's activities responsibly and effectively
- Calendars and time on task -

CCFO 4

- ▣ Collect, analyse, organise and critically evaluate information
- Active contribution, using social networking -

CCFO 5

- ▣ Communicate effectively using visual, mathematical and/or language skills in the modes of oral and/or written presentation
- Using various application to respond in a (multi)media rich response -

CCFO 6

- ▣ Use science and technology effectively and critically, showing responsibility towards the environment and health of others

- Using ICT's -

CCFO 7

- ▣ Demonstrate an understanding of the world as a set of related systems by recognising that problem-solving contexts do not exist in isolation

- Internet 2 -

HE Teaching and Learning

- ▣ Improve contact between lecturers and students
- ▣ Improve cooperation between students
- ▣ Encourage active learning
- ▣ Give rich and rapid feedback
- ▣ Emphasize time on task
- ▣ Communicate high expectations
- ▣ Respect diverse talents and ways of learning

7 Good Teaching Principles by Chickering and Gamson 1987

NG - Blackboard Learn Platform

MONUMENT

My Places Home Help Logout

My Institution Courses Content Community Services

Courses Homepage Instructor Dashboard Student Dashboard Outcomes & Assessments

Add Bb Modules Add External Modules

My Courses

Courses Taught

- > [Earth Science 101-B](#)
The final review session will be Friday at 10am. Anyone who hasn't attended a session yet really needs to be there so you will be ready for the final exam.
- > [Physics 101-B](#)
- > [Biology 101-B](#) (Sakai Course)
- > [Introduction to Algebra](#) (Moodle Course)
- > [Advanced Math Theory](#) (WebCT CE4 Course)
- > [World History 200-B](#)
- > [Gov and Politics 150-A](#) (Angel Learning)

Courses Enrolled In

- > [Dinámica de Grupos \(DG101A\)](#)
- > [Web应用开发\(M5\)](#)
- > [Theory of Interest](#) (Vista 8 Course)

What's New

Announcements (6)

Lab Assignments (Biology 101-B)

See Dr. Learhman on Nova (Biology 101-B)

Search Course Catalog

Name Contains GO

Browse Course Catalog

Course Tasks

Earth Science 101-B

- Complete midterm study guide

Marine Biology 101-B

- Contact group members for research project
- Bring ideas for topic to class

Physics 101-B

- Submit group project topic
- Turn in class policy document

Introduction to Algebra (Moodle Course)

- Turn in Homework 9 in the next class.

Course Calendar

Monday, January 14

Post study guide (Earth Science 101-B)

Course Announcements

Create Announcement

Earth Science 101-B

- Midterm is scheduled for Friday. Don't forget that class will be extended by 30 minutes for the exam!
- Study guide has been posted for the upcoming exam.

Physics 101-B

- Group project topics should be submitted by the end of class on Thursday.
- Next assignment: research topics due!
- Class has been canceled on Tuesday.

Biology 101-B (Sakai Course)

- The scavenger hunt report should be handed in to the lab assistant for your lab session by April 19th.

Government and Politics 150-A (Angel Learning)

- Reminder that group projects will be presented this week and next week.

.....the ability to merge or integrate different technologies....



What's New

Edit Notification Settings

Actions

Announcements (6)

- [Lab Assignments](#) (Biology 101-B)
- [See Dr. Learman on Nova](#) (Biology 101-B)
- [Midterm Paper Topics](#) (Biology)
- [Group Assignments](#) (Biology)
- [Guest Speaker on Tuesday](#) (Biology)
- [Sustainability Research Paper](#) (Ecology 201-A)
- [Coniferous Plants and Soil Conditions](#) (Biology)
- [Lakes and Ponds](#) (Biology)

Discussion Board (3)

- [Coniferous Plants and Soil Conditions](#) (Biology)
- [Lakes and Ponds](#) (Biology)
- [Protozoa Experiment](#) (Biology 101-B)

Blogs (1)

Journal (1)

Needs Attention

Edit Notification Settings

Actions

Grade Tests (5)

- [Ponds and Lakes Quiz](#) (3) (Biology)
 - Beasley, Betty
 - Canteras, Julia
 - Massimo, Bernard

Algae Quiz (2) (Biology 101-B)

Grade Assignments (12)

- [Biomes Reflections](#) (5) (Biology)
- [Sustainability and Architecture](#) (7) (Ecology 201-A)

Review Surveys (2)

Alerts

Edit Notification Settings

Past Due

Tests (4)

- [Biomes Reflections](#) (2) (Biology)
 - Canterrell, James
 - Martiz, Julio
- [Sustainability and Architecture](#) (2) (Ecology 201-A)
 - Fasson, Emily
 - Martin, Joseph

Assignments (4)

Early Warning System

Biology 101-B

- Not Logged In – 10 Days (3) - Refreshed 02/06/08
- Writing Grades (6) - Refreshed 02/06/08

Biology

Ecology 201-A

...the Early Warning System...

NG - Blackboard Learn Platform

MONUMENT

My Places Home Help Logout

My Institution Courses Content Community Services

Biology Course Materials > Search for a YouTube Video Edit Mode: ON ?

Search for a YouTube Video

Enter search information below. Click Go to view the results

Powered by YouTube

Search: At least one of the words Language:

Displaying 1-10 of 4,000 results. Sort by: Limit:

Page 1 of 10

An anthropological introduction to YouTube

Duration: (55:34)
 User: someusername - Added: 8 months ago
 Rating: 4.67 of 5 stars - 113 Votes View Count: 1,031,937
 YouTube URL: http://www.youtube.com/watch?v=TPAQ-iZ4_hU
 presented at the Library of Congress, June 23rd 2008. This was tons of fun to

A Portal to Media Literacy

Duration: (1:06:12)
 User: someusername - Added: 8 months ago
 Rating: 4.67 of 5 stars - 113 Votes View Count: 62,406
 YouTube URL: <http://www.youtube.com/watch?v=J4yApaqnr0s>
 Presented at the University of Manitoba June 17th 2008. (for those of you waiting for

INSTRUCTOR AREA

File Manager

Biology

....Mash Up's bring web 2.0 technology into the learning environment.....



Biology

- Homepage
- Textbooks & Materials
- Course Materials
- Course Tools
- Blogs
- Wikis
- Journals
- Discussion Board

My Groups

- Study Group 1
- Oceans Project Team

INSTRUCTOR AREA

- File Manager
- Biology
- Search Content

Biology Blog: Bob Daly

Create Entry

View Drafts

Instructions

An active research topic in marine biology is to discover and map the life cycles of various species and where they spend their time. Marine biologists study how the ocean currents, tides and many other oceanic factors affect ocean lifeforms, including their growth, distribution and well-being. This has only recently become technically feasible with advances in GPS and newer underwater visual devices.

Thursday, February 28, 2008

Study Finds Human Medicines Altering Biology 2/18/08

Posted by [Bob Daly](#) at 8:18 AM

Sewage-treatment plants in Southern California are failing to remove hormones and hormone-altering chemicals from water that gets flushed into coastal ocean waters, according to the results of a study released Saturday. It confirms the findings of smaller pilot studies from 2005 that discovered male fish in the ocean were developing female characteristics, and broadened the scope of the earlier studies by looking at an array of man-made contaminants in widespread tests of seawater, seafloor sediment and hundreds of fish caught off Los Angeles, Orange and San Diego counties.

Read the full article at: <http://www.latimes.com>

Attached Files: [Marine Biology Introduction](#); [Marine Biology Introduction \(517.5 Kb\)](#)

4 Comments New

Comment

Map of Human Impacts to Ecosystems

Posted by Bob Daly at 11:07 AM

About this Blog



Owner: **Bob Daly**

Type: **Individual Blog**

Entries: **3** 2 New

Comments: **6** New Comments

Grade: --

Feedback: --

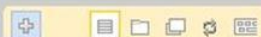
Grade Date: --

Grade

Grade:

Feedback:

...Gradable Blogs and Discussions that links to the Grade Center automatically. Journals for reflection....



Biology

[Homepage](#)[Textbooks & Materials](#)[Course Materials](#)[Course Tools](#)[Blogs](#)[Wikis](#)[Journals](#)[Discussion Board](#)

My Groups

[Study Group 1](#)[Oceans Project Team](#)

INSTRUCTOR AREA

[File Manager](#)[Biology](#)[Search Content](#)[Control Panel](#)

Freshwater Biology

[Create Wiki Page](#)[History](#)

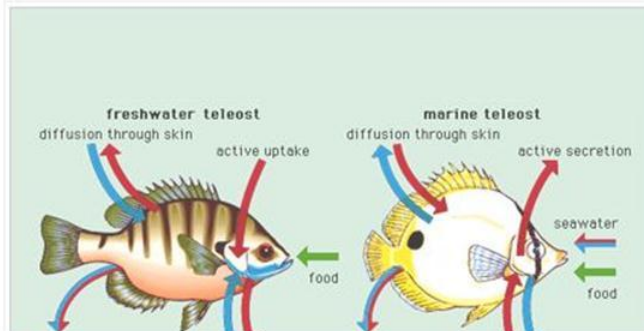
Instructions

Wiki pages allow a community to collaboratively edit a collection of documents, providing links between these documents is done almost automatically and it is easy to comment on and give a rating (1-5 stars) to these documents. This document provides an introduction to wiki pages on this site, for more information about the wiki product we use see [1] the ZWiki User Guide.

Biodiversity: towards a unifying theme for river ecology

[Edit Wiki Content](#)

Created by Enzo Palladio on Tuesday, June 30 2009 10:13:47 AM EDT, last modified by Mira Naer on Monday, July 13, 2009 12:22:53 PM EDT



About this Wiki

Wiki Author: **Instructor**

Wiki Creation Date: **4/25/2009**

Wiki Type: **Course**

Pages: **3**

Comments: **2**

Participation Summary

Edited by: **Enzo Palladio**

Pages Edited: **2 of 3**

Words Edited: **1,098 (35%)**

Total Page Saves: **5 (25%)**

Comments: **1**

Grade

Grade:

Feedback:

Grade Notes:

Grade Date:

[Edit Grade](#)

...A wiki tool that is gradable...

facebook

Search ▾

Applications edit

Ads and Pages

Photos

Groups

Events

Marketplace

Flog Blog

more

Who is Searching for You?

?

?

Have you ever wondered who has searched for you? Find out which old friends are looking for you at AllHighSchools.com

More Ads | Advertise

Profile editFriends ▾Networks ▾Inbox ▾

home account privacy logout

Bb sync

Tell A Friend ▾ | Accounts ▾

What's New

Announcements

Forums

Materials

Grades

Course Maps

Rosters

Scholar

View Options: View All Courses ▾

Last sync on: January 30, 2008 at 5:40pm

Introductory Oceanography

BIOL227-01

NEW

Office Hours have moved to Kern Building

January 28, 2008

Please note that my office hours location has changed. I will be available from 4-7 on Mondays and Wednesdays throughout the semester in the Kern building on West campus. If you are unable to see me during those hours, please email me a specific request to meet.

Go To My Course

New Guest Lecture Added

January 28, 2008

Guest Lecturer Dr. Daniel Stillman will be speaking on the effects of weather on the environment and our oceans. Date to be finalized next week.

Go To My Course

Differential Equations

MATH201-09

NEW

The exam on Lesson 3

January 27, 2008

...LMS Integration into facebook – displaying Announcements...

facebook

Search ▾

Applications edit

Ads and Pages

Photos

Groups

Events

Marketplace

Flog Blog

more

Who is Searching for You?

Have you ever wondered who has searched for you? Find out which old friends are looking for you at [AllHighSchools.com](#)

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Profile edit Friends ▾ Networks ▾ Inbox ▾

home account privacy logout

Bb

sync

Tell A Friend ▾ | Accounts ▾

What's New

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Rosters

Scholar

View Options:

View All Courses ▾

Last sync on: January 30,2008 at 5:40pm

Introductory Oceanography

BIOL227-01

NEW

01/31/08 | grade on Chapter 3 Exam

NEW

01/31/08 | grade on Field Assessment Report

01/29/08 | grade on Baden-Powell Quiz

01/28/08 | grade on Chapter 2 Exam

Differential Equations

MATH201-09

01/29/08 | grade on Problem Set #2

01/28/08 | grade on Separate Differential Equations Quiz

Social Psychology

PSYC112-04

...LMS Integration into facebook – displaying Grades...

iGoogle

Google Search

I'm Feeling Lucky

[Advanced Search](#)
[Search Preferences](#)
[Language Tools](#)

Home ☐ [Add a tab](#)

 [Get artist themes](#) | [Select theme](#) | [Add stuff »](#)

Wikipedia

Wen

Weather

Washington, DC

87°F
Current: Cloudy
Wind: S at 0 mph
Humidity: 60%



Beijing

77°F
Current: Rain
Wind: N at 2 mph
Humidity: 94%



Vancouver, BC

68°F
Current: Mostly Cloudy
Wind: W at 7 mph
Humidity: 60%



CNN.com

Blackboard Sync

What's New 

June 25, 2008

- [Introduction to Oceanography](#)
- [Announcements](#)
- [Office Hours have moved to Kern Bldg.](#)
- [Differential Equations](#)
- [Materials](#)
- [Study Guide for Midterm](#)

June 26, 2008

- [Differential Equations](#)
- [Announcements](#)
- [Lesson 3 Quiz next week](#)

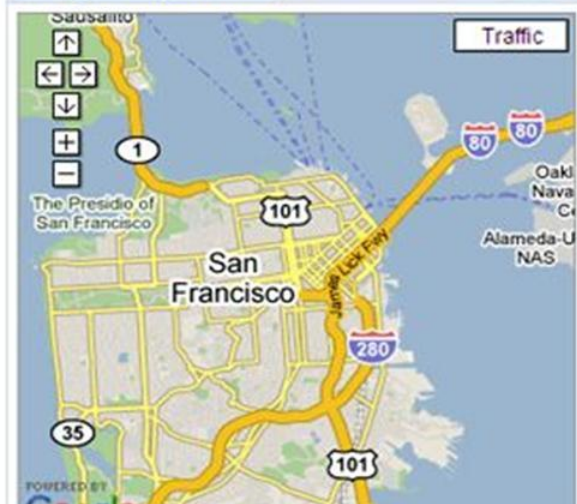
Dictionary

Search

Gmail

- » [Davinci's Florist](#) - flowers Dear Stephen 10:03am
- » [DailyCandy D.C. - Well Done](#) - DailyCandy 4:20am
- » [frog cupcake topper ideas](#) - me, Claudia (3) Jul 6
- » [save the date!](#) - me, Lindsay (2) Hey Steve Jul 6
- » [\(no subject\)](#) - Claudia, me (2) Sorry ab Jul 6
- » [have a look](#) - Claudia, me (2) I don't have Jul 6
- » [found cake](#) - Claudia, me (2) will call you Jul 6
- » [all my surfing pays off](#) - Claudia, me (4) Jul 6
- » [Resume](#) - Claudia, me (3) yes, he will Jul 6

Google Map Search



...LMS Integration into iGoogle- displaying
What's new...

Search:

Web Search

Yahoo! Home

My Main Page

Add Page



Hi, Patrick [Sign Out] Help

My Quicklinks

- Answers
- Autos
- Finance
- Games
- Geocities
- Groups
- HotJobs
- Mail
- Maps
- Movies
- Music
- Personals
- Real Estate
- Shopping
- Sports
- TV
- Tech
- Travel
- Yellow Pages

More Yahoo! Services

Personalize this page

Make the holidays easier

Share this page

Today



What's New



sync

June 25, 2008

Introduction to Oceanography

Announcements

[Office Hours have moved to Kern Bldg.](#)

Differential Equations

Materials

[Study Guide for Midterm, Part 1](#)

June 26, 2008

Differential Equations

Announcements

[Lesson 3 Quiz next week](#)

Differential Equations

Materials

[Study Guide for Midterm, Part 2](#)

Richmond.com Local Headlines

- University of Richmond alumnus set for Dec. 6 shuttle liftoff - 6 months ago
- I-295 flyover project to cause detours Dec. 3-6 - 6 months ago
- J. Sarneant Reynolds tries for largest school fundraiser in state - 6 months ago

Personal Assistant

Mail
1 New

Horoscope



Portfolio

Weather
68°F

Lottery



Sports

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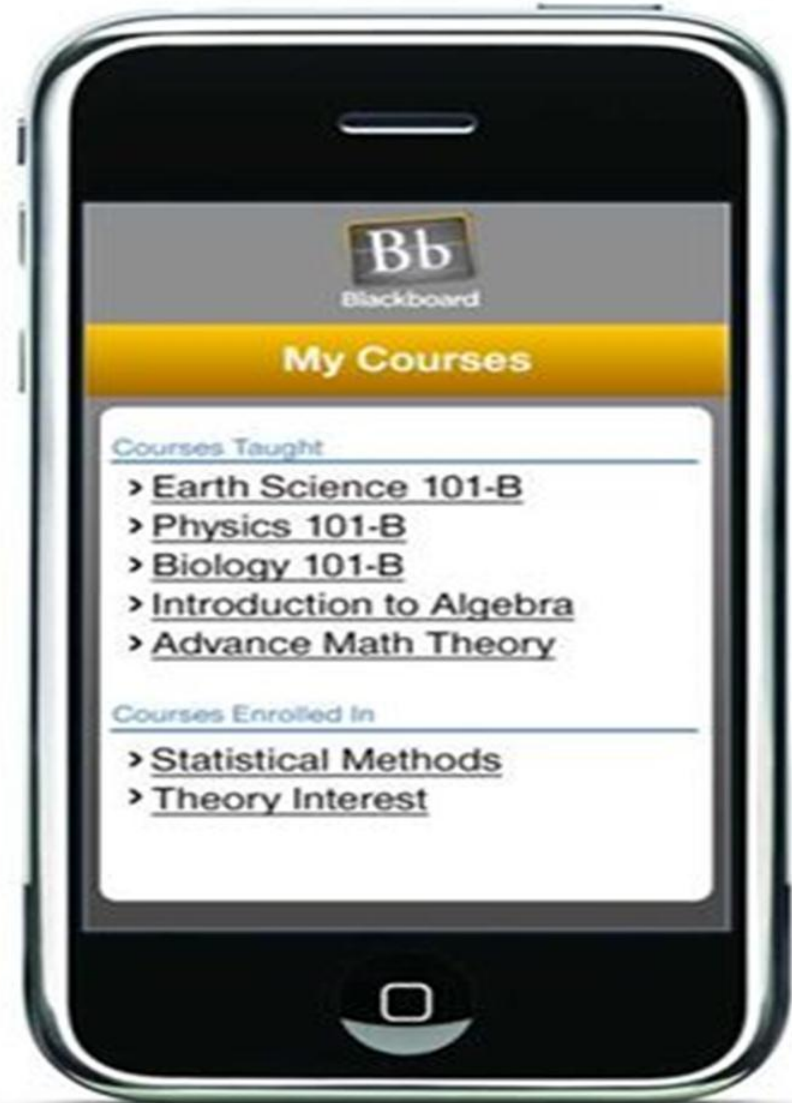
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Local News from WRC 4 via Yahoo! News

- Eating Right Can Help People Manage Stress, Experts Say - 12 hours ago
- Trooper Cites Man For Driving Too Slow In Attempt To Save Gas - 12 hours ago

...LMS Integration into Yahoo- displaying
What's new...



...the LMS on the iPhone...

Thank you



smiti@cput.ac.za
sakkie@smitte.co.za



@sakkiesmit



www.cput.ac.za/elearning
www.smitte.co.za