

Blackboard®

Opening the Gateway to Innovation At Groningen

*Dan Hewes, Solutions Engineer,
Blackboard*



What you need

What you can achieve

Senior management support No risk adversity	4	Achieve strategic goals	Change the educational experience	?	
Developers Cooperative IT services	3	Digitize educational processes	Everything a student needs in Blackboard	Analytics/ Data driven approach	?
Use students Staff trainers	2	Great support	Educational design in courses	Celebrate staff success	?
BBMH (Data)integration	1	Reliability and ease of use			
LMS Add ons to LMS	0	All courses have a website Efficient communication with students			

Reliability and ease of use

- No unplanned downtime for more than 18 months
- No unusable parts of the LMS (content system)
- No batch or copy paste of student/staff data
- Large uptake in usage 50000 --> 113000

BBMH
(Data)integration

Managed Hosting

- 99.9% uptime
- Over 1300 Managed Hosting clients world wide
- Concentrate on content and pedagogy

Chelsea Ross

Recent Activity >

Courses

Calendar 4

Messages 8

Grades 100

People 3

Tools

Logout



Today



Biological Sciences: People and their Health
Kerry Wok and 2 others replied to your post

2m

Yes, I agree with your points, but I think there is more to the topic. I was just reading this article from the NIH about how people perceive health and it's not really just about their choices. People don't get exposure to the same types of health information everywhere in the world. We have to find a way increase health education.



Biological Sciences:
Added - Metamorphosis Evolution PPT

4h

Download | Share



Yesterday



Biological Sciences:
Grade Posted: Mid Term Quiz

9:30 am

Great work Chelsea. I can see you took all of my feedback into account.

Your Score: 50 / 50



Biological Sciences:
Added - Organic Chem Lab DOC

11:15 am



2 days ago



Biological Sciences:
New Assignment: Assignment 2

2:45 pm

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Great support

Educational design in
courses

Celebrate staff success

?

- Everything that's not easy to do done by support
- Easily manage large (100+) groups of students
- Flipped classroom courses

Use students
Staff trainers

Blackboard Catalyst Program



Blackboard[®]
CATALYST AWARD

The Blackboard Catalyst Award Program honors those who push the boundaries of their educational programs and technology in order to delivery innovative and effective learning experiences.

Catalyst Awards

Exemplary Course

Exciting and innovative courses that represent the very best in technology and learning

Staff Development Award

Those who support and enhance faculty and professional development skills

Innovation Award

Individuals and/or institutions that successfully increased levels of student engagement or retention

Student Impact Award

Those that think outside the box in such areas related to teaching and learning practices, online program management, etc.

Strategic Services

Launch and Expand Online Learning Programs
Engage Student Through Effective Use of Technology

Technical Services

Manage Upgrades and Implementations
Design and Develop Customized Solutions to Meet Specific Needs

Training Services

Deliver Product Training
Provide Professional Development Opportunities for Your Staff

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Digitize educational
processes

Everything a student
needs in Blackboard

Analytics/
Data driven approach

?

- Digital examinations
- Portal pages for departments
- Grades, schedule, available workspaces as modules
- Find out if activity in LMS is connected to study success

Developers
Cooperative IT services

What can we build?

The screenshot shows a web browser window with the address bar displaying a URL from the University of Navarra. The page header includes the university's name and the course title. The main content area is titled 'Presentación' and contains a detailed description of the 'Prácticum' module, its objectives, and its structure. A left sidebar provides navigation links for various course components.

ScreenRecorder

Blackboard Learn para la

https://aula-virtual.unav.edu/webapps/portal/frameset.jsp?url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id...

Blackboard Hosting ES Kaltura Compo ES El Universal Currer LinkedIn Curso Inglés Vimeo Traductor IM+ Tiny la Caixa Otros marcadores

Universidad de Navarra

Administrador Blackboard

Portada Administrador del sistema

Presentación

Go To Student View El modo de edición está: DESACTIVADO

Asignatura: (006)-Prácticum (MUP)

Presentación

El Módulo de Prácticum responde a la necesidad de formación interdisciplinar que los estudiantes requieren para su capacitación profesional. Se pretende poner en relación los conocimientos adquiridos en el Máster con las actitudes y capacidades adecuadas que les permitan responder, convenientemente, a la realidad educativa a la que se enfrentan, contando para ello con el asesoramiento de profesores-tutores de la Universidad de Navarra y de los distintos Centros de Prácticas donde pueden realizar sus estancias prácticas.

La normativa que regula el Máster, fundamentalmente la Orden ECI/3858/2007 de 27 de diciembre, establece que el Practicum se realizará en colaboración con las instituciones educativas establecidas mediante convenios entre Universidades y Administraciones Educativas.

Dichas instituciones educativas participantes en la realización del Practicum habrán de estar reconocidas como **centros de prácticas**, así como los **tutores** encargados de la orientación y tutela de los estudiantes.

El Practicum se estructura en dos periodos de prácticas:

- i. uno más reducido vinculado a los contenidos del módulo general (**Practicum I**)
- ii. y un segundo más amplio de mayor implicación en la práctica docente específica, vinculado al módulo específico (**Practicum II**).

ADMINISTRACIÓN DE ASIGNATURA

- Administración
- Archivos
- Herramientas de la asignatura

About Integrations

Blackboard is committed to empowering clients by providing an **open**, extensible learning management system that fosters innovation and creativity.



With an active development community, **open** APIs, forums and sample code Blackboard has provided Learn developers with the resources to take advantage of its **open** platform

- Building Blocks
- Open Standards
- Open API's
- Web Services
- Open Database Initiative
- CSS Brands and Themes
- Authentication
- Reporting



Development

- Event Driven API
- Proxy Tools
- Web Services

LTI

- Learning Tool Interoperability
- xpLor
- Bring other systems inside your VLE

SIS Framework

- IMS Enterprise 1.1.
- IMS 1.1 – vista
- IMS Learning Information Services (LIS) 2.0
- Snapshot Flat File
- Snapshot XML

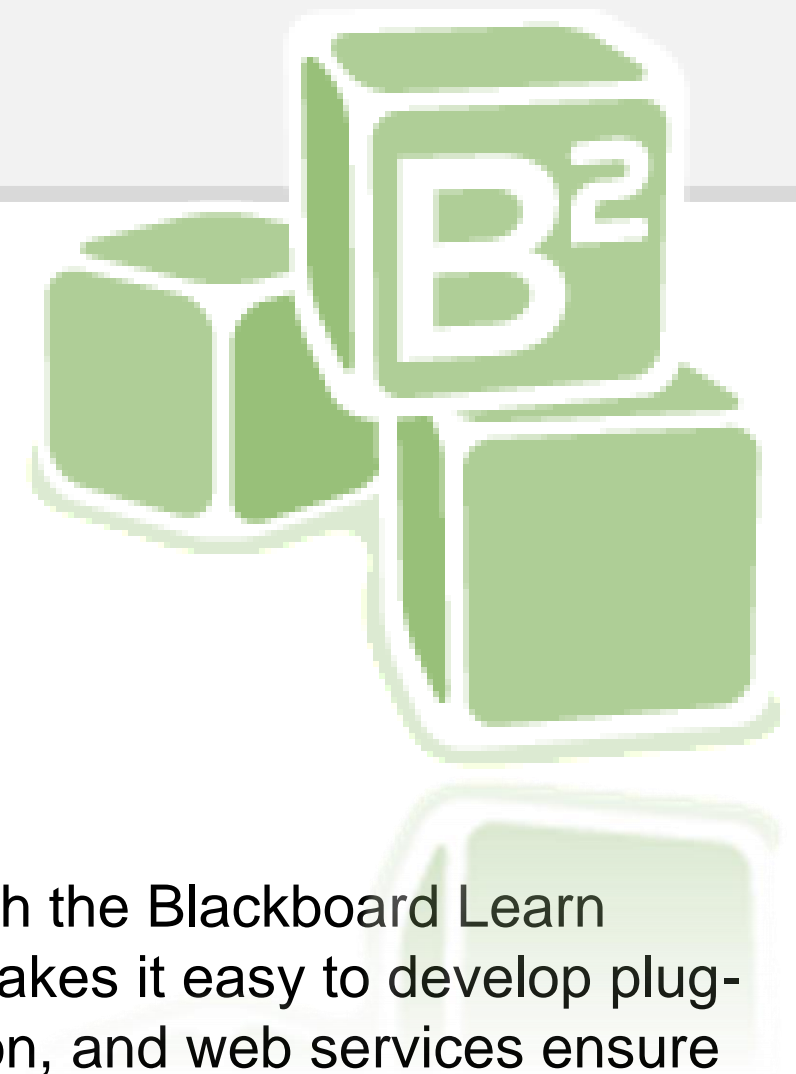
Building Blocks

Through the use of Blackboard Building Blocks™, Blackboard has provided a “plugin” model for its Blackboard Learn platform since 2001. Blackboard developers have created hundreds of Building Blocks which allow institutions to customize their instance of the software to meet their needs.

Blackboard has a variety of technologies to support integration with the Blackboard Learn platform. The popular Blackboard Building Blocks™ set of APIs makes it easy to develop plugins and extend functionality. APIs for authentication, SIS integration, and web services ensure that the platform will integrate with all of your other systems.

[Blackboard Extensions](#)

[Oscelot Community Building Blocks](#)



Open Standards

Blackboard has support for IMS Common Cartridge and LTI standards. We continue to work closely with organizations including IMS Global and InCommon, supporters of federated Shibboleth authentication, to expand standards support in our software and lead in the establishment of other industry standards.

[Shibboleth](#)

[IMS Learning Tools Interoperability](#)

[IMS Common Cartridge](#)



Shibboleth.



Blackboard

Open API's

Blackboard provide a comprehensive list of open API's for development of the Blackboard Learn product.

Official Blackboard Developers site

[EduGarage](#)

A full list of open API's / Javadocs and service pack changes are available from

[Building Blocks API and Web Services Specifications and Changes](#)

Community Developer Website

[Oscelot Project Website](#)

Open Database Initiative



In the summer of 2010, Blackboard made good on a commitment for platform openness by publishing details about the database structures that power the Blackboard Learn platform. Our Open Database initiative provides your institution with documentation and guidance necessary to access and retrieve critical information stored in the Learn platform about the activities of your users. We can all recognize the potential benefits of this access. IT staff can keep track of system activity, model growth and plan for the future. Academic staff can collect data about adoption, use and the efficacy of certain initiatives. Institution leadership can use real data to evaluate return on investment and make data-supported decisions.

[OpenDb Datasheet](#)

[Schema Definitions](#)

The database schema is available for clients from Behind the Blackboard

Web Services



Web services allow you to remotely connect to Blackboard Learn using virtually any programming language of your choosing. Blackboard Learn ships with instructions for accessing the web services using Java and .NET.

[Building Blocks API and Web Services Specifications and Changes](#)

[Oscelot Community Web Services Project](#) | [New Site](#)

[A Blackboard Client Developer Tutorial](#)

Integrations – Authentication Framework

The Blackboard Learn Authentication Framework enables users providing ID and password credentials to validate and initiate a session in Blackboard Learn. The framework also enables integrating Blackboard Learn with one or more external authentication providers.

The Authentication Framework is provided using Building Block technology with full user interface installation, management, and logging. This use of Building Blocks to provide authentication integration removes barriers and issues with system management related to custom authentication.

Blackboard Learn Authentication Framework Supports (out of the box)

[LDAP - Lightweight Directory Access Protocol](#)

[CAS - Central Authentication Service](#)

[Shibboleth](#)

[Authentication Framework Information](#)

Blackboard Learn ships with native support for a variety of authentication mechanisms. The Blackboard authentication APIs are also available for custom central authentication and single sign-on configurations.

Reporting

Blackboard Learn has a standard set of reports available inside the product which can be run at system or course level. However some clients prefer to interrogate the database via SQL queries. As Blackboard has an open database this can be achieved in two ways.

Advanced System Reporting

This allows the client to query a sub set of database tables (bb_60 stats tables) using SQL. Advanced System Reporting (ASR) allows clients who are hosted by us to query a non production set of database tables. For more information about ASR talk to a Solutions Engineer

BIRT Reporting

Business Intelligence and Reporting Tools (BIRT) is an open source reporting system based on Eclipse that integrates with Web applications to produce reports. BIRT provides core reporting features such as report layout, data access, and scripting. .This will provide the organisations create SQL queries and bundle them together in a building block to be ran at a system or course level.

More about BIRT can be found at Help.Blackboard.com and on the [Oscelot project website](http://Oscelotproject.org)

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Achieve strategic
goals

Change the
educational
experience

?

- Use activity in LMS a to predict and increase study success
- Introduce adaptive testing and/or automated correction of exams

Senior management support
No risk adversity

+
☰
📁
💻
🔄
⬆️⬆️

Blackboard Sample Course

Announcements

Grades

Course Home

Unit 1 – What's New

Unit 2 – Accessibility

Unit 3 – Workshop

Unit 4 – Leadership

Groups

Wikis ☒

Course Information

Tools

COURSE MANAGEMENT

Control Panel

Content Collection →

Course Tools

Evaluation →

Retention Center

Customize

The Retention Center provides an easy way for you to discover which students in your course are at risk. You can communicate with struggling students and help them take immediate action for improvement. You can also keep track of patterns over time. [More Help](#)

Students currently at risk

20				
STUDENT ▲	MISSED DEADLINES	GRADES ALERT	ACTIVITY ALERT	ACCESS ALERT
Mary McBriar	●	●	●	●
Tanya Tomlin	●	●	●	●
Alex Adams	●	●	●	●
Betty Born	●	●	●	●
Chad Chen	●	●	●	●
Dennis Dachmeier	●	●	●	●
Ethan Eads	●	●	●	●
Gail Gallagher	●	●	●	●

Students you are monitoring

You are not monitoring anyone yet

Monitor your students to gain insights to their academic progress.



Other information you are monitoring

GRADES ALERT

Grade for Test – Accessibility for Online Learning – Self Test(10) is below 5 points

0 students meeting rule

ACCESS ALERT

Last access more than 3 days ago

20 students meeting rule

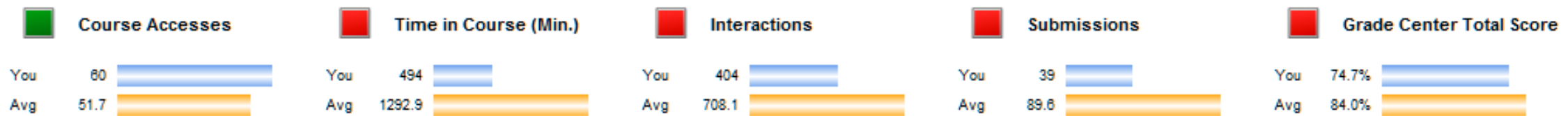
Student Reporting

Lydia Crespi Compared to Course Average

[Report Help](#)

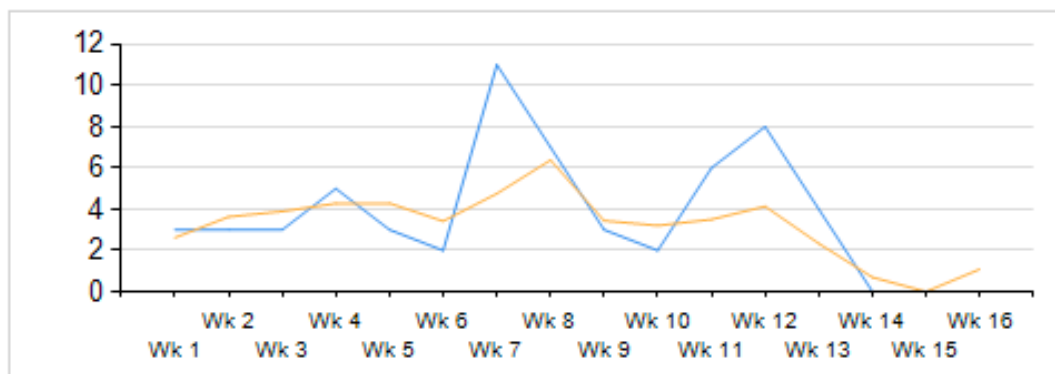
PSYC 210 Psychology of Learning (01.9013) FA2011 (01)

Your Total Activity Compared to the Course Average

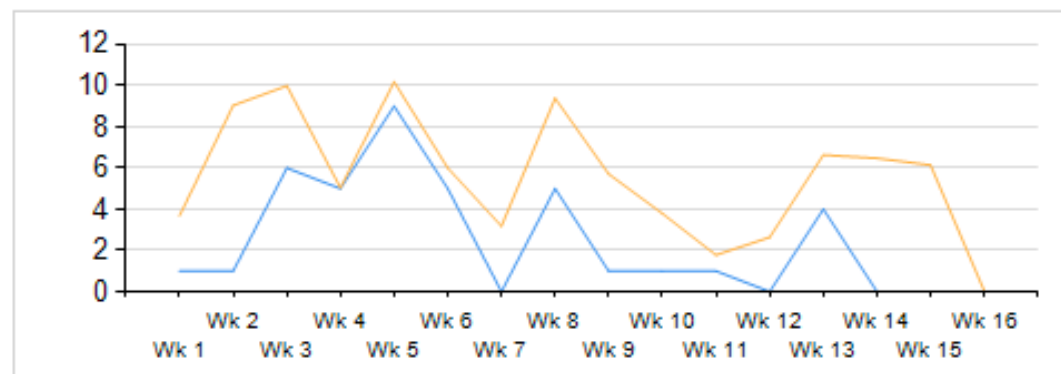


Your Course Accesses vs. Avg.

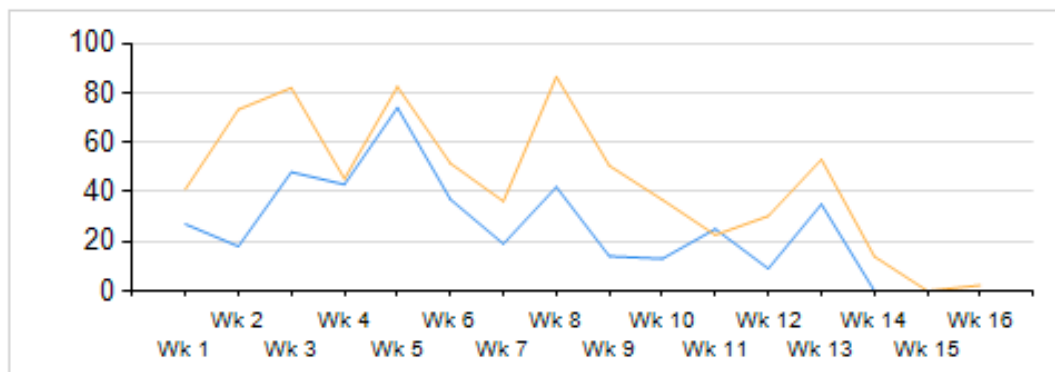
You: Avg:



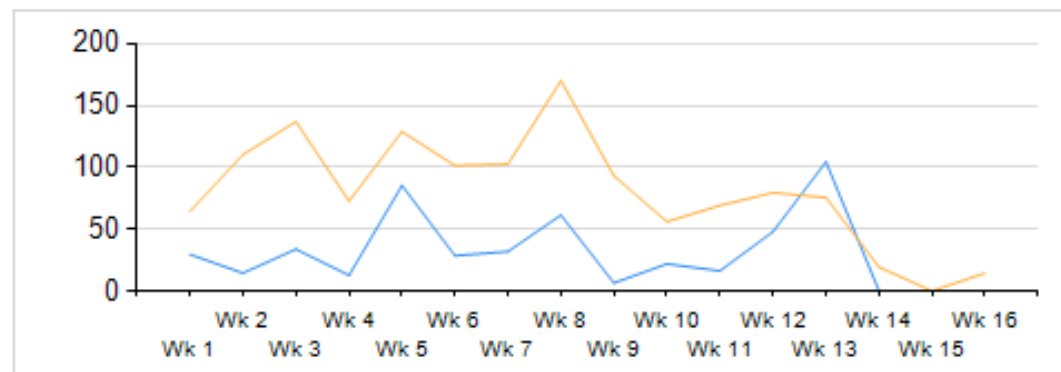
Your Submissions vs. Avg.



Your Interactions vs. Avg.



Your Time in Course (min.) vs. Avg.



Student At-a-Glance Report

[Back to Report](#)

[Report Help](#)



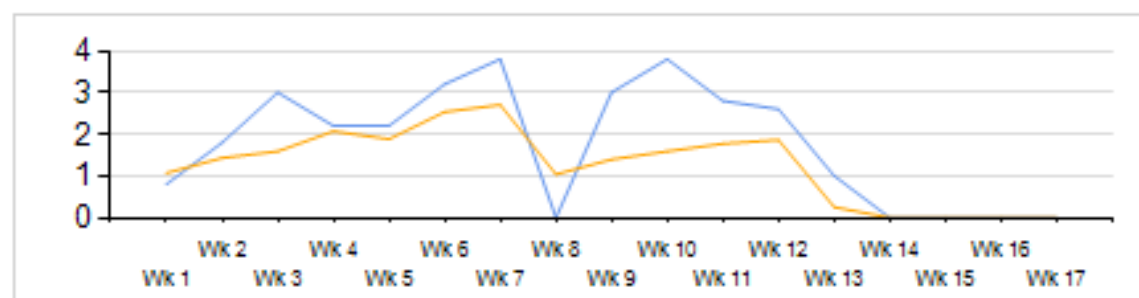
Nishi, Lynne (63698)

General Information

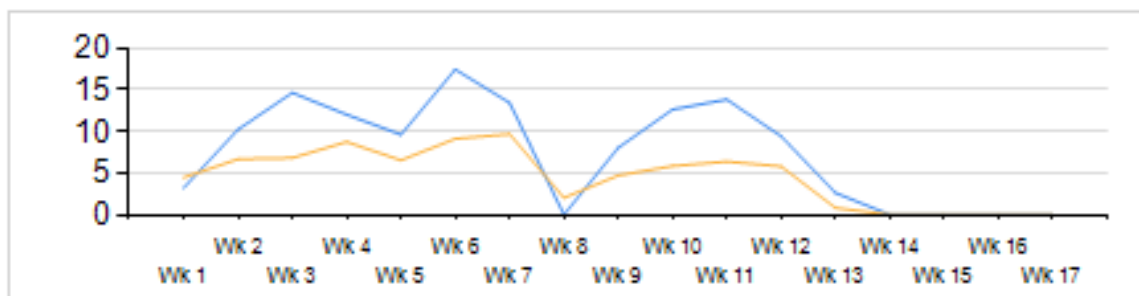
Student ID: 63698 **Email:** User 374101@blackboard.edu
Standing: Good Standing **Phone:**
Primary Major: Mechanical Engineering - BS **Class Level:** Junior
College: Engineering & Info Tech **Level:** Undergraduate

Course Accesses vs. Avg.

Student Enrolled Courses



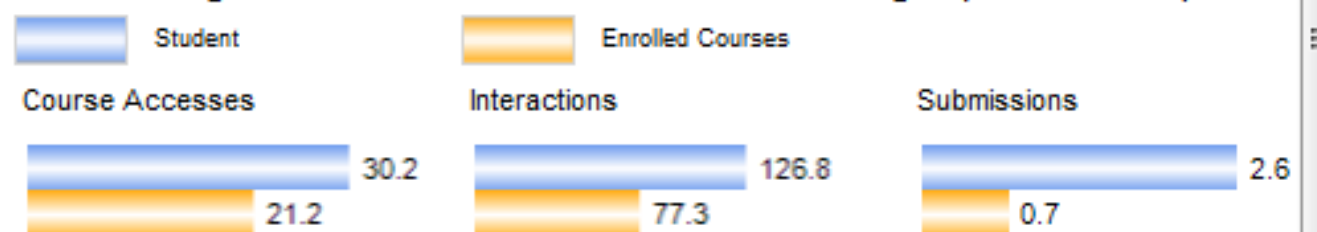
Interactions vs. Avg.



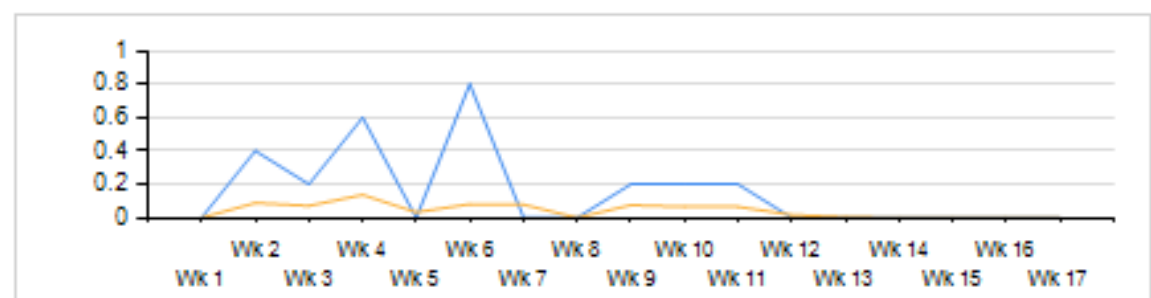
Blackboard Course History

Term	Learn Course	GradeCenter Not Used	No Items Added	Interactions Trend	Enrolled Count	Course Accesses		Minutes	
						Student	Avg.	Student	Avg.
Spring 2012	ENME 217 Engineering Thermodynamics (01.1173/02.1174/03.1175/04.1176) ... (01)				54	54	38.2	1253	702.
Spring 2012	ENME 301 The Structure and Properties of Engineering Materials (01.118) (01)				36	37	37.5	1587	543.

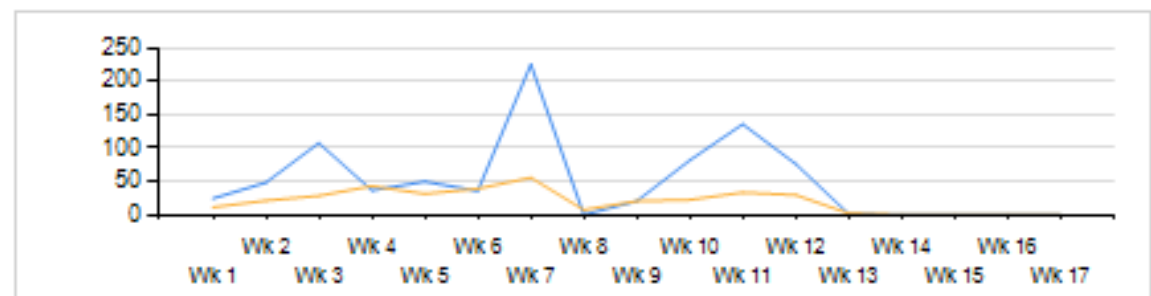
Student Avg. Per Course vs. Enrolled Courses Averages (269 Students)



Submissions vs. Avg.



Minutes vs. Avg.



Leg



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