

# National Repository Of Online Courses (NROC)

# **Project Overview**

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Executive Director

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#### NATIONAL REPOSITORY of ONLINE COURSES

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The National Repository of Online Courses (NROC) is a growing library of high-quality online courses for students and faculty in higher education, high school and Advanced Placement©.



#### FOR ACADEMIC INSTITUTIONS AND FACULTY



An online community of educators, designers, technologists, and administrators working together to develop high-quality online education.

#### FOR STUDENTS



A free, public website for high school and college students that offers NROC multimedia correlated to most major textbooks.





AP History Lesson 63



NOAA Plate Tectonics



AP Calculus

View Repository

# **Open Educational Resources**

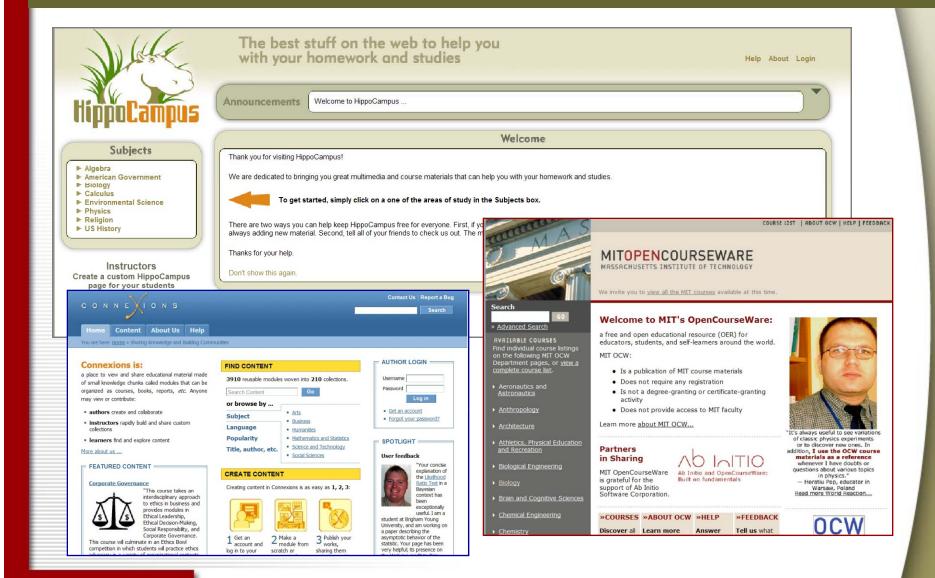
# THE WILLIAM AND FLORA HEWLETT FOUNDATION



# **High Quality Educational Content**



# **OER Providers**





A library of high-quality, multimedia rich online courses for high school, Advanced Placement<sup>®</sup>, and higher education students and teachers.

# NROC Library - 2009



#### College Course Foundations

US History I US History II

**American Government** 

Introductory Physics I (algebra-based)
Introductory Physics II (algebra-based)

General Physics I (calculus-based)

General Physics II (calculus-based)

Introductory Calculus I Introductory Calculus II

General Calculus I General Calculus II

**Environmental Science** 

Religions of the World

Elementary Algebra

Psychology

Calculo General I (Spanish)

Calculo General II (Spanish)

Statistics for the Social Sciences

# Advanced Placement Course Foundations

AP Environmental Science

AP Physics B I AP Physics B II

AP Physics C I

AP Physics C II

AP US History I

AP US History II

AP US Government and Politics

AP Calculus AB I

AP Calculus AB II

AP Calculus BC I

AP Calculus BC II

**AP Biology** 

#### High School Course Foundations

College Prep Physics I
College Prep Physics II

Algebra 1a Algebra 1b

#### Also in Development

Non-Majors Biology

Curso de Algebra 1A (Spanish)

Curso de Algebra 1B (Spanish)

Coming in 2010

Algebra 1 (NEW)

# Quality



- Media rich
- Editorially rigorous
- Instructionally sound



# Flexible

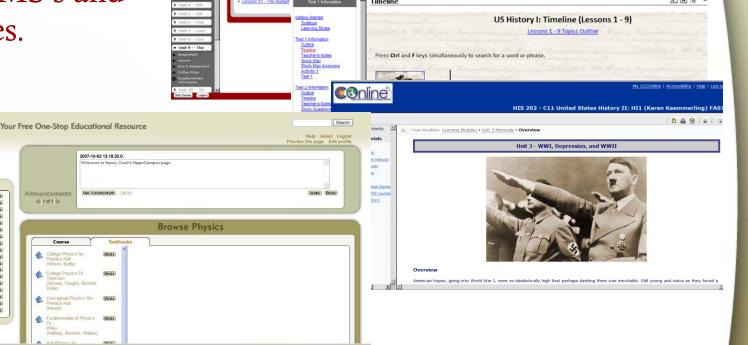


NATIONAL REPOSITORY of ONLINE COURSES

Can be used within popular CMS's and repositories.

Dalete Dalete

Deste



Chattanooga State HIST2010 United States History I Online

Customizable by a teacher, a district, or a state.

# Curricular



NATIONAL REPOSITORY of ONLINE COURSES

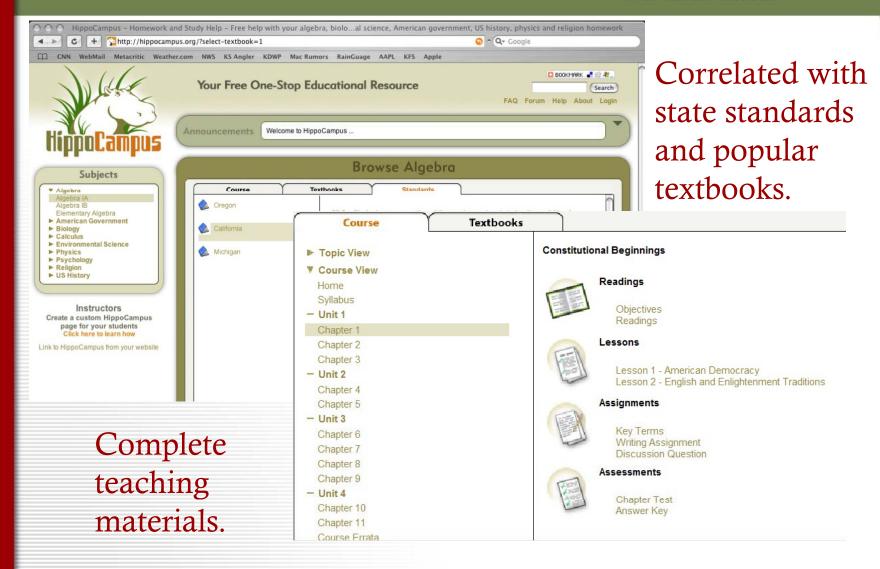
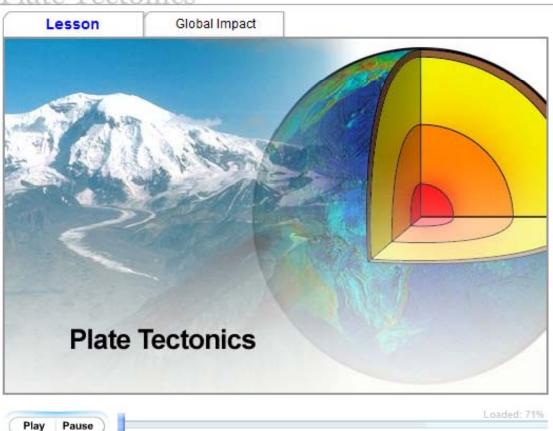




Plate Tectonics

Credits

Printable Version





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### 5. ANTIDERIVADAS & INTEGRALES DEFINIDA

Lección 50: Teorema Fundamental de Cálculo

Isaac Banon

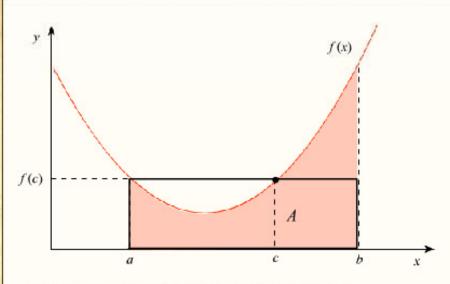
El Teorema del Valor Principal

Aqui tenemos el gráfico de una función f(x) que es continua en el intervalo [a,b].

Podemos determinar el área sobre la curva integrando la función de a a b.

Ahora supongamos que definimos un rectángulo con su base dada por b menos a, y su altura dada por f(c), donde c está en el intervalol [a,b].

Podemos usar estos valores para calcular el área del rectángulo.



El área bajo la curva en el intervalo [a,b] es dada por:

$$A = \int_{a}^{b} f(x) dx$$

El área del rectángulo es dada por:

$$A_{in} = f(c) \cdot (b - a)$$

menu

# **HippoCampus**



#### NATIONAL REPOSITORY of ONLINE COURSES



#### Your Free One-Stop Educational Resource

New courses at HippoCampus! ...

Search

FAQ Forum Help About Login

### Subjects

- ▶ Algebra
- ► American Government
- **▶** Biology
- **▶** Calculus
- ► Calculus (Spanish)
- ► Environmental Science
- ► Physics
- ► Psychology
- ▶Religion
- ► Statistics
  ► US History

#### Instructors

Create a custom HippoCampus page for your students Click here to learn how

Link to HippoCampus from your website



### Welcome to HippoCampus

HippoCampus offers multimedia lessons and course materials to help you with your instruction, homework and studies. You can browse multimedia lessons or complete courses, and find help with the topics covered in popular textbooks.

To get started, simply click on one of the areas of study in the Subjects box.

Find out more about HippoCampus here.

Don't show this again.

Announcements



Chattanooga State

Center for Distributed Education

On-line courses offered through eLearn.

Earn your Associates
Degree and /or
Certification at
Chattanooga State.



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# HippoCampus.org



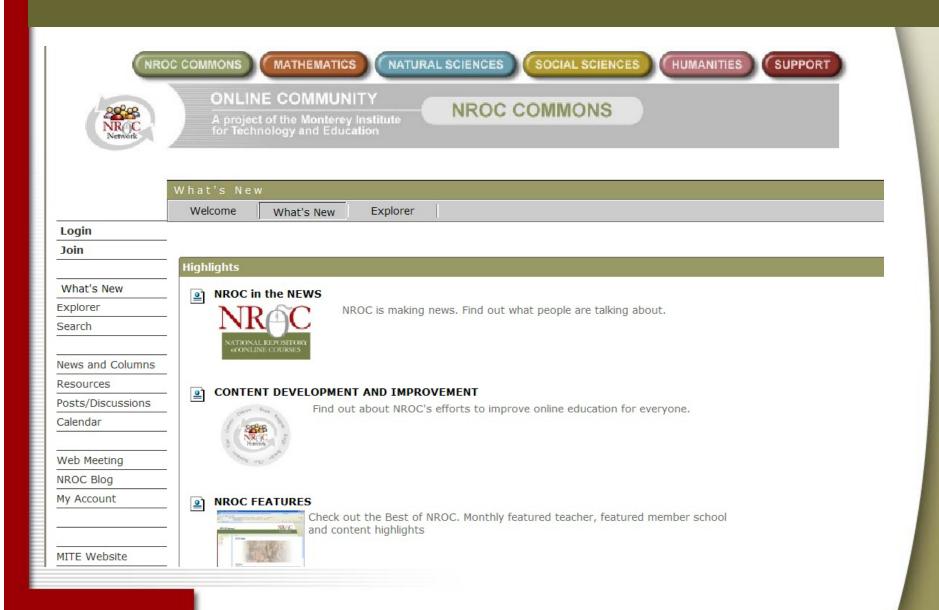
# **Google Key Word Ranking**

NATIONAL REPOSITORY of ONLINE COURSES

KEY WORD	RANK	TOTAL HITS
Free homework help	18	3,020,000,000
Free online homework help	12	7,610,000
Free us history homework help	1	247,000
Free environmental science homework help	1	112,000
Free American government homework help	2	225,000
Free biology homework help	3	240,000
Free physics homework help	10	241,000
Free algebra homework help	11	391,000
Free calculus homework help	16	141,000



# NROC Network: Institutional Membership



# **NROC** Network



Educators, designers, technologists, and administrators working together to promote the continuous improvement of online courses through collaborative development of high-quality content and instruction.



# Network Members, Pilots, & Partners

Academy School District 20 Online	СО	Iowa Learning Online	IA
Adams 12 Five Star Schools	CO	Kent Technology Academy	WA
Alabama Department of Education	AL	Kentucky Virtual Schools	KY
Albuquerque Public Schools	NM	Lake Tahoe Community College	CA
Anaheim Public Schools	CA	League for Innovation	AZ
AP Prep	NY	Los Angeles Unified School District	CA
Aurora Public Schools	CO	Louisiana Department of Education	LA
Bambugare Network	NA	Lubbock Christian University	TX
Bethel Covenant College (Uganda)		Lubbock Independent School District	TX
Cal State Fullerton	CA	Maryland State Depart. of Education	MD
Center to Bridge the Digital Divide	WA	Mason City School District	ОН
Chattanooga State	TN	Mead School District	WA
Chemeketa CC	OR	Michigan Virtual School	MI
Clark County Virtual High School	NV	Mid-Hudson BOCES Consortium	NY
Colorado Community Colleges Online	co	Minneapolis Public Schools Online	MN
Colorado Online Learning	СО	Minnesota Online	MN
West Virginia Comm. Tech. College	WV	Mississippi Department of Education	MS
Cooperstown Central School	NY	Missouri Virtual Instruction Program	МО
CORE		Missouri Virtual School	МО
CUDI		Montana State University - Billings	MT
Cyberlearning	VA	Monterey Peninsula School District	CA
Digital Learning Commons	WA	myHimachal	PA
Douglas County School District	CO	Myron B. Thompson Academy	HI
Eastside Preparatory School	NJ	Network for Mercy Education	IL
EPC-Summer Academies	CA	New Mexico Cyber Academy	NM
Esperanza Academy	PA	New York Harbor School	NY
Florida Distance Learning Consortium	FL	North Carolina Comm. College System	NC
Florida Virtual School	FL	N. Dakota Ctr. for Distance Education	ND
FSS Project T.E.C.H	CA	Northern Humboldt Con. of Schools	CA
Georgia Board of Regents	GA	Northview High School	CA
Georgia Virtual School	GA	Omaha Public Schools	NE
Greenville County Virtual School	SC	Open High School of Utah	UT
Grossmont Union High School District	CA	Oregon Department of Education	OR
Gwinnett County Online Campus	GA	OTAN	CA
Hamilton County Virtual School	TN	Partnership for Innovations	NE
Hawaii Department of Education	HI	Petersons	
Hudson County Schools of Technology	NJ	Pierce College	WA
Idaho Digital Learning Academy	ID	Portland State University	OR
ilnstructor.net	UT	Poway Unified School District	CA
Illinois Virtual High School	IL.	Rochester Public Schools	MN
Indian Prairie School District #204	ΪĹ	RUSD	CA
Iowa Community College	IA	San Jacinto College	TX
January Concept		22220 2020	.,,



San Jose Education Foundation	CA
San Luis Obispo Cty. Office of Educ.	CA
San Marcos Baptist Academy	TX
Santa Barbara Cty. Office of Educ.	CA
Saskatchewan Institute of	
Applied Science and Tech	NA
Silicon Valley Workplace Center	CA
Silver State High School	NV
South Carolina Depart of Education	SC
Southern Regional Education Board	GA
Sowelo Technical Community College	LA
St. Petersburg College	FL
Teachers Without Borders	NA
Tennessee Board of Regents	TN
Council of Chief State School Officers	KY
The Mid-Hudson BOCES	NY
Tulare County Office of Education	CA
University of California College Prep	CA
University of Montana System	M٦
University of Texas at Brownsville	TX
UT TeleCampus	TX
Utah Electronic High School	UT
Valley Christian School	CA
Virtual College of Texas	TX
Virtual School Society	NA
Virtual Virginia	VA
West Virginia University at Parkersburg	W۱
Western Governors University	UT
Whitfield County Career Academy	GA



# **Custom Member Sites**





# **CUDI HippoCampus**



#### NATIONAL REPOSITORY of ONLINE COURSES



Subjects

- ▶ Algebra
- ► Algebra (Spanish)
- ► American Government
- ▶ Biology
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- ► Physics
- ► Psychology ► Religion
- ► Statistics
- **►US History**

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Welcome to the CUDI HippoCampus page

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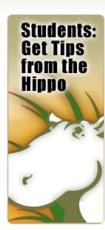
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Search

Help About Login



# Offering Course Content Statewide



### **CHALLENGE:**

Offer high-quality online course content statewide



"The (NROC courses) were a unique find. The quality is extraordinary, the flexibility is exceptional, and the feedback we're getting from our teachers is the content is amazing."

Steve Nelson
Chief Information Technology Strategist, ODOE

Course Redesign & Blended Learning



### **CHALLENGE:**

Replace some classroom time with online course components



"We chose the NROC content because it is high quality, and includes lessons, learning objects, activities and assessments, all of which may be used separately. The fact that lessons can be "chunked" in ways that work for the individual faculty member make them more desirable than other third party content."

Michael Anderson, Assistant Director, UT System TeleCampus

# **Replacing Costly Textbooks**



# **CHALLENGE:**

Textbook prices are too high.



### On teaching US History without a textbook

". . . we turned to NROC. I left my discussion questions, midterms, and finals the same as they were when we used the textbook, so I could compare outcomes. I was happy to find that my students are right on track with the digital alternative . . . "

Karen Kaemmerling
Chair of Social Sciences, CCCOnline

### **ESL Students**



# **CHALLENGE:**

Learning English while keeping up with course work.

"I've noticed that they're testing well on vocabulary words we reviewed in HippoCampus . . . The HippoCampus lessons really help reinforce their vocabulary with nice, clear audio, video, and animations."

Rebekka Stone Biology Teacher, HSHS



# **Sharing Through a Central Repository**



# **CHALLENGE:**

Promote content sharing and save development costs among 35 member colleges.



"Starting a statewide digital repository is a challenge. At the core of the project, the repository must offer sufficient rich multimedia and high quality resources to attract and motivate faculty to use repository content. In Florida, we are licensing the high quality NROC content library to form that essential content core."

Susie Henderson, Director, Orange Grove