



HOW CAN WE INTEGRATE TECHNOLOGY TO SUPPORT STUDENTS' LEARNING?

ANKIT DESAI, UNIT-IT

ANDY-GUOQIANG CUI, VITAL

OUTLINE



Pedagogical
Consideration
of Technology
Integration

Technology
Tools and
Services
Available at
Villanova

Go to www.menti.com and use the code 3143 0229

Why do we use technology in class?



Go to www.menti.com and use the code 3143 0229

Why do we use technology in class?



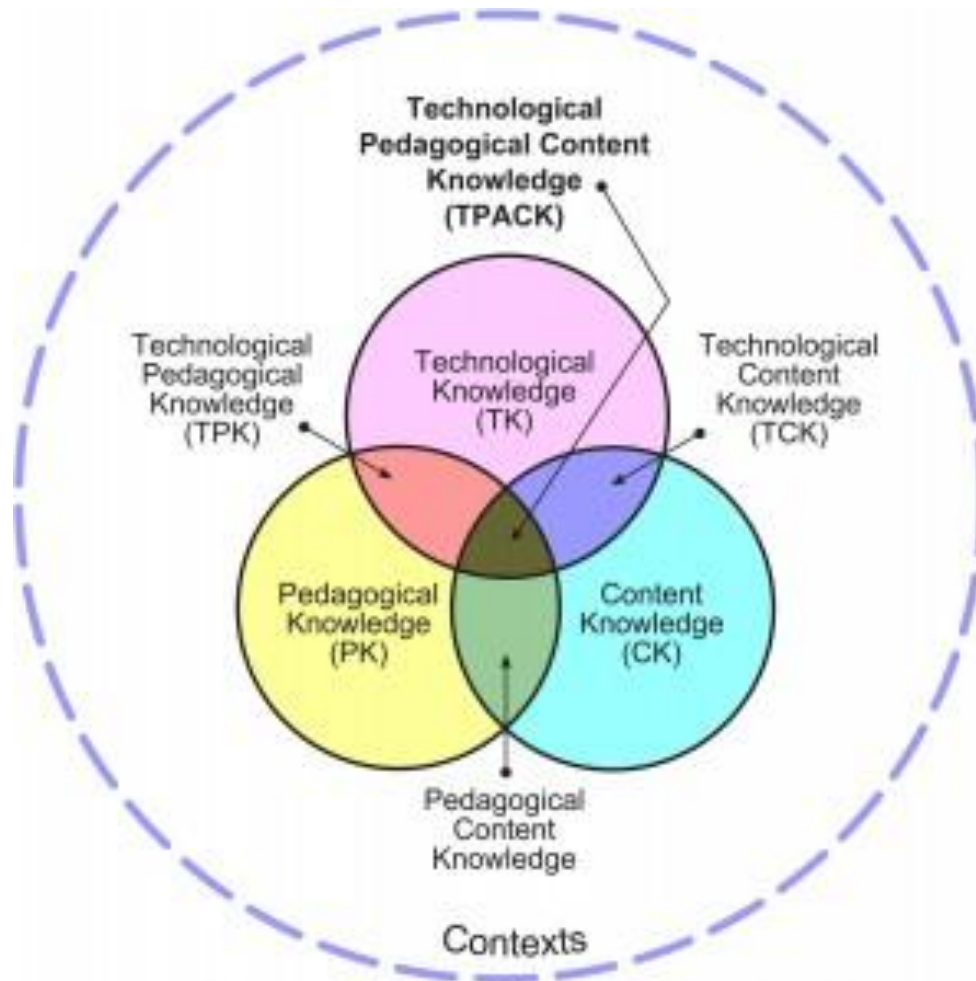
WHY USE TECHNOLOGY IN CLASSROOM

- Engage and motivate learners
- Support various approaches to teaching/learning: collaborative learning, problem solving, mastery learning, self learning
- Link learners to information and resources
- Track learner progress



- Media, were like trucks, they were delivery vehicles and no more (Clark, 1983).
- “Technologies do not bring about revolutions, people do.”
--Denise Murray, Director of NCELTR, Macquarie University

TPACK MODEL



Punya Mishra & Matthew Koehler, 2006

*Diagram and explanation ©2012 by tpack.org.
Reproduced by permission of the publisher.*

HOW TO INTEGRATE

- Allow technology to support the learning outcomes, and help students effectively reach these outcomes
- Make technology available and accessible
- Incorporate use of technology into meaningful activities in the lesson plans
- Promote key components of learning: active engagement, collaboration, mastery learning, frequent interaction, feedback, etc.
- Provide multiple asynchronous and synchronous communication technology options.
- Provide education and support to ensure that students (a) know how to use available technologies, (b) technology requirements, (c) technology skills, and (d) privacy.
- Tech support



VILLANOVA UNIVERSITY

UNIT

UNIVERSITY INFORMATION TECHNOLOGIES

Ankit Desai

Learning Technologies

ankit.desai@villanova.edu

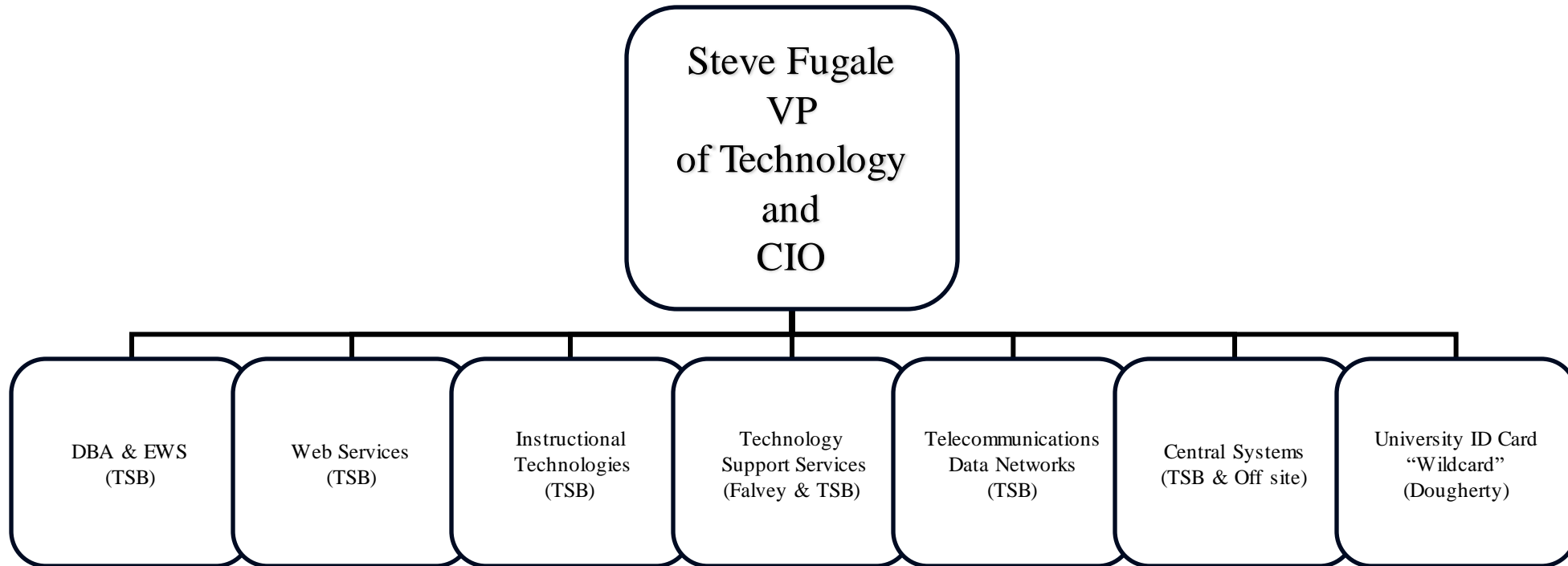
610-519-3266



INNOVATIVE TECHNOLOGY SOLUTIONS & SERVICES

University Information Technologies (UNIT) is a team of motivated professionals whose mission is to provide innovative solutions and services to our university. By leveraging people, process, technology and a commitment to service excellence, UNIT is focused on enhancing teaching, learning, research and the technological experience in partnership with our faculty, staff and students.

UNIT – ORGANIZATIONAL STRUCTURE



FACULTY SUPPORT SERVICES

Technology Support Services

Assistant Vice President, Technology Support Services

Matthew Morrissey

Computer Support (Tech Zone)

Helpdesk

Faculty Refresh

Office 365 (Email, One Note, MS Apps)

Desktop Applications/vDesktop

Security (virus/spam support)

Nova Alert

Public Lab Support

Instructional Technologies

Assistant Vice President, Instructional Technologies

Kevin Donahue

eLearning

Classroom Infrastructure & Support

University YouTube

Learning Management System

Student Response System

Academic Software Libraries

ePortfolio

Enterprise Video Platform

Web Conferencing

INSTRUCTIONAL TECHNOLOGIES

Our goal....(integrate technology to support students' learning across pedagogies, learning styles, in-class, online)

- Support activities & tools that will have a positive effect on student outcomes
- Provide stable, easy to use & “customizable” set of teaching tools
- Provide support & training services
- Position the University for changing technologies, e.g., improved wireless protocols, smart devices, tablets, ePortfolio, learning analytics, etc.
- Provide services and technology solutions that will address a broad range of teaching needs
- Provide *accessible* technologies and services

View our Faculty Technology Services website:

http://www.l.villanova.edu/villanova/unit/faculty_services.html



INSTRUCTIONAL TECHNOLOGIES

Classroom Technologies

Multimedia Technologies

Learning Technologies

CLASSROOM TECHNOLOGIES

- Responsible for all classroom technologies (projector, displays, video/audio cables, speakers, cameras, mics, & all associated Audio/Visual Equipment) – Includes design, installation, maintenance, and supporting faculty/students/staff using classroom technologies
 - Classroom Support Hotline: 610-519-5631

Classroom Support Hotline 610-519-5631

For A/V support before, during or after class, please call the Classroom Support Hotline, or for more classroom information please visit UNIT's website by scanning the QR code below.



<http://www.villanova.edu/unit>

Numbers to Know

Classroom Support Hotline 610-519-5631

Public Safety (Campus Emergency) 610-519-4444

Help Desk (Computer Support) 610-519-7777

Facilities (Temperature & Lighting) 610-519-4420



CLASSROOM TECHNOLOGIES

- Responsible for all classroom technologies (projector, displays, video/audio cables, speakers, cameras, mics, & all associated Audio/Visual Equipment) – Includes design, installation, maintenance, and supporting faculty/students/staff using classroom technologies
 - Classroom Support Hotline: 610-519-5631
- Classroom Technology Items to Note:
 - BYOD, DVD/VCR → Converting to Digital Video
 - Overhead Projector → Document Camera
 - Mersive Solstice Wireless Projection
 - <https://www1.villanova.edu/villanova/unit/instructionaltech/classequipment.html>

MULTIMEDIA TECHNOLOGIES - ACADEMIC VIDEO SERVICES

Classroom Lecture Capture (<https://www1.villanova.edu/villanova/unit/instructionaltech/audiovideo/lectcapture.html>)

- Over 60 classrooms on campus have Mediasite lecture capture capabilities.
- No faculty intervention required
- Record one class or the entire semester
- Recordings appear in Blackboard or can be distributed individually

Self Service Tools for Faculty and Students

- (<https://www1.villanova.edu/villanova/unit/instructionaltech/audiovideo/mediasite-upgrade.html>)
- MyMediasite is a desktop based lecture capture application that allows faculty and students to create and upload video based content.
- Students can use it to practice and record presentations

Video Content Development and Consulting for on-ground and online courses

- Meet with faculty to discuss their course
- Discuss their goals for video within their course
- Help faculty segment content to create short videos that meet their students needs.

MYMEDIASITE & MEDIASITE DESKTOP RECORDER



Home

Moderation



Add Media



AD

Ankit Desai

My Presentations

My Drafts

Channels

no favorite channels

Shared Folders

no favorite shared folders

My Presentations

1 2 3 ... 266 >

Sort By

Most Recent

Source

Any Source



3 30s



sampleankitupload

Owner: Ankit Desai

Jul 11, 2018 11:24 AM



Workday Learn

Owner: Ankit Desai

Apr 10, 2018 12:17 PM

MYMEDIASITE & MEDIASITE DESKTOP RECORDER

The screenshot shows the 'Record' window of the MyMediaSite Desktop Recorder. At the top, there is a progress bar with four steps: 1. Select Type (highlighted in yellow), 2. Set Up Hardware, 3. Capture Area, and 4. Summary. Below the progress bar, the 'PRESENTATION NAME:' field contains 'Unnamed Recording'. Underneath, the instruction 'SELECT THE TYPE OF RECORDING YOU WANT TO CREATE:' is followed by two options. The first option, 'Slideshow + Video', is highlighted with a yellow border and includes icons for a slide and a video camera. The second option, 'Slideshow + Audio', includes icons for a slide and a microphone. At the bottom, there are two buttons: 'Cancel Recording' and 'Next >'.

Record

1 Select Type > 2 Set Up Hardware > 3 Capture Area > 4 Summary

PRESENTATION NAME:
Unnamed Recording

SELECT THE TYPE OF RECORDING YOU WANT TO CREATE:

Slideshow + Video
Present still images from your computer desktop with camera and microphone input.

Slideshow + Audio
Present still images from your computer desktop with microphone input.

Cancel Recording Next >

MYMEDIASITE NEW FEATURES – (INTERACTIVE VIDEOS WITH QUIZZING)

Ankit's First Quiz

▶ Skip Quiz

Quizzes ▾



1 / 2

What color is the sky? 1 point

- Black
- Blue
- Red

← Previous

Skip →

MULTIMEDIA TECHNOLOGIES

ACADEMIC VIDEO SERVICES – PRODUCTION SERVICES

Three studios on campus: Bartley, Law and Falvey Library.

Available for academic recording for on ground or online courses, promotional interviews, podcast recording or media opportunities utilizing our VYVX fiber.

Samples:

MBA Fast Track information video:

<https://vums-web.villanova.edu/Mediasite/Play/a4922846ed79484fba291ceb0357755a1d>

Graduate Engineering at Villanova

<https://www.youtube.com/watch?v=Gmlz67dsVAU>

Why I Give (College of Engineering):

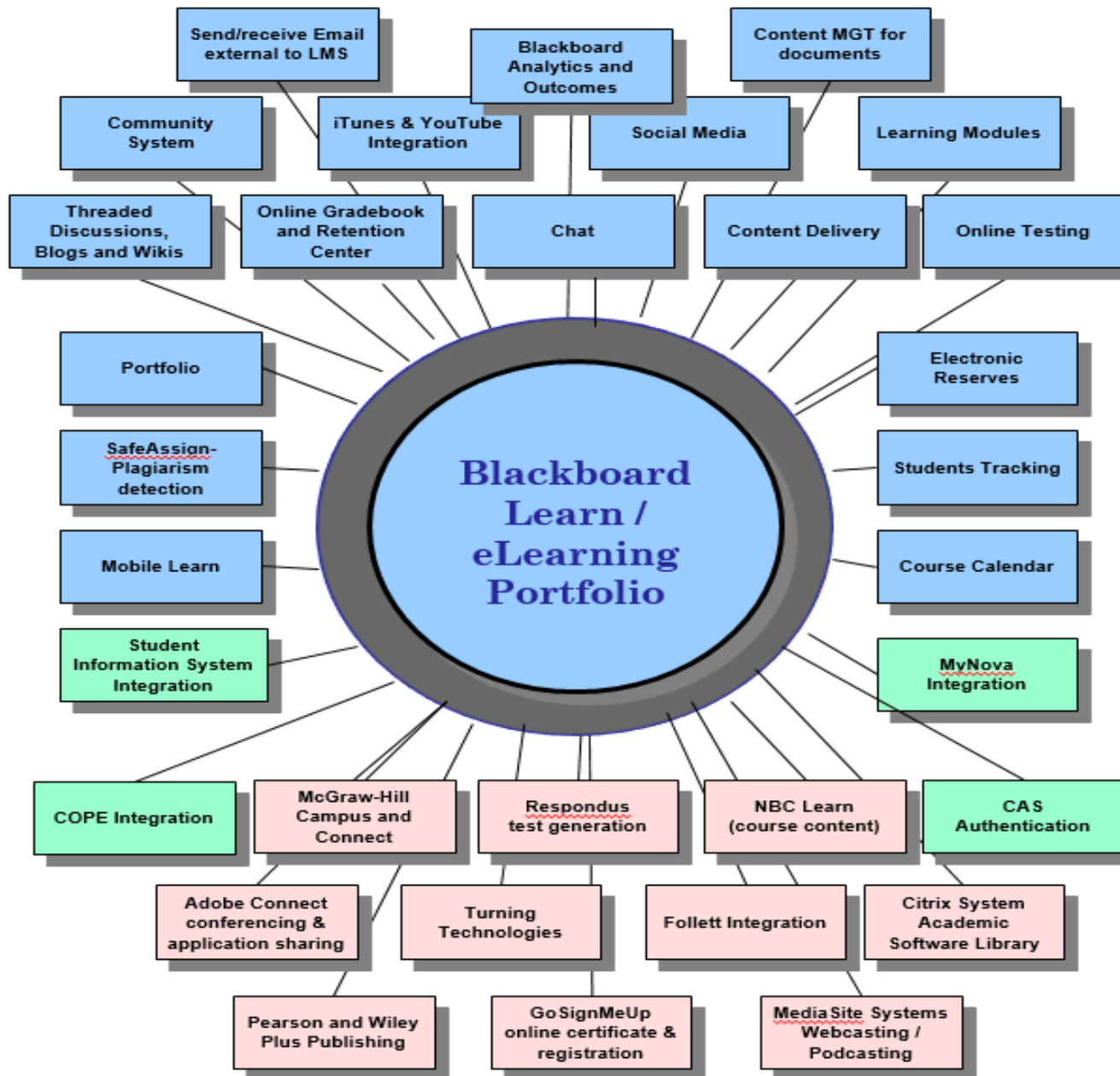
<https://www.youtube.com/watch?v=rNITrddeJU8>

Jay Wright on ESPN

<http://espn.go.com/video/clip?id=15148066>

Big East Times Square Advertisement

<https://www.youtube.com/watch?v=AGgTpJv5rmQ>



Features in LMS
 UNIT developed interfaces/services
 3rd party applications

LEARNING MANAGEMENT SYSTEM (BLACKBOARD)

Features:

Content posting – upload, organize, any type of file, embed media (Mediasite, Youtube, NBC Learn)

Assessment tools – provide a place for students to upload assignment documents, take online quizzes (enhanced security through Respondus)

Grade book – online grades for each gradable item, weighted columns

Communication – Discussions, Blogs, Journals, including third party apps (VoiceThread, Yellowdig)

Publisher content – McGraw-Hill, Pearson, Wiley, Cengage







Retention – set alerts to know who is falling behind/may need intervention

Get To Know Your MyNova Portal

MyNova was designed with each technology user in the Villanova community in mind. You portal is customizable to provide you with a personalized experience. You can 'favorite' the link cards that are most important to you to make them easily accessible each time you log in. To learn more about how to customize your MyNova portal, check out the 'How T...
[view more...](#)

[view all](#)

My Favorites 

 <p>Blackboard Learn</p> <p><i>i</i> ❤️</p>	 <p>VITAL</p> <p><i>i</i> ❤️</p>	 <p>UNIT Faculty News</p> <p><i>i</i> ❤️</p>
 <p>Faculty Teaching Networks</p> <p><i>i</i> ❤️</p>	 <p>Teaching Talk</p> <p><i>i</i> ❤️</p>	 <p>Brightspace D2L</p> <p><i>i</i> ❤️</p>

Areas of Interest

Access from myNova

Content Homepage

Build Content

Assessments

Tools

Partner Content

Discover Content

*It's time to add content...
Use functions above to add it.*

Course Dashboard

Content Homepage

Groups

Bb Collaborate

Tools

My Messages

My Grades

Course Management

Control Panel



Fall17_MPA_8000_101

Announcements

Syllabus

Course Introduction

University Policies

System Requirements

Bb Collaborate

Week 1

Week 2

Week 3

Week 4

Villanova Mail

Discussion Board

Help

Course Management

Control Panel

Content Collection

Course Tools

Week 1

Welcome to Week 1: Navigating the Online Classroom



Weekly Objectives

Whether you are new to online learning, returning to higher education after an absence, or a seasoned student; the online learning environment can be a challenge. This week we will look at the online classroom. Through your Blackboard classroom you receive your assignments, communicate with your instructor and student peers, and receive feedback and assessment. You may hear your instructor refer to the classroom as the Blackboard or "LMS", the acronym for learning management system.

After completing this lesson, you should be able to:

ADDITIONAL LEARNING TECHNOLOGIES

Video Conferencing (Synchronous Online Learning/Online Office Hours)

- [Blackboard Collaborate Ultra](#)
- [Zoom](#)

Multimedia Content

- [NBC Learn](#)
- Mediasite

Academic Integrity (Secure Testing/Plagiarism Detection)

- Respondus (Lockdown Browser & Monitor)
- SafeAssign (Blackboard)

Interaction with students

- VoiceThread
- [YellowDig](#)

Publisher content

- McGraw-Hill, Pearson, Wiley, Cengage

ADDITIONAL SUPPORT

Instructional Support

Traditional, hybrid & distance learning classes

Instructional Design (personal web sites and *Blackboard)

Course Content: video, audio, eBooks, graphics, NBC Learn

Online Testing (Respondus) & surveying

SafeAssign – Plagiarism detection

Clicker Response systems (Turning Technologies)

Podcasting, webcasting & lecture capture from classrooms

Villanova YouTube
ePortfolios

Audio / Video and Conferencing Services

Software (*Zoom/Bb Collaborate) & hardware based video conferencing (Tandberg systems)
Webcasting , Webinars and Lecture Capture (Mediasite systems)

Classroom Infrastructure

Learning Events – workshops, seminars, academic presentations, etc.

Academic Software (Citrix) – SPSS, SAS, etc.,

ADA support

RESOURCES

Faculty Technology Services website

http://www1.villanova.edu/villanova/unit/faculty_services.html

- ✓ Mobile App – Nova Now!
- ✓ Vdesktop
- ✓ Video production services
- ✓ eLearning information

Office 365

https://www1.villanova.edu/villanova/unit/employee_services/Office365.html

- ✓ eMail
- ✓ Online versions of MS Office
- ✓ 1 TB storage

Unit Updates

<http://www1.villanova.edu/villanova/unit/unitupdates.html>

Unit Progress Report

http://www1.villanova.edu/villanova/email/unitprogressreport/progress_report.html

Hardware / Software support

- ✓ Tech Zone (day and after hours support) – 9-7777
- ✓ Email support – support@villanova.edu

Classroom Support – 9-5631

- ✓ broken equipment, recording classes, etc.

Workshops

- ✓ <http://www1.villanova.edu/villanova/unit/helpsupport/traininghelp/schedules.html>

IT SECURITY AWARENESS

High profile Breaches:

- University of Maryland – 309,000+ names, birth dates, SSNs of faculty staff and students
- Butler University – nearly 200,000 people: bank account info, SSNs, driver's licenses
- Indiana University – names, addresses, SSNs of 146,000 past and present students

Villanova:

- 1000+ Malware infections blocked daily
- 800,000+ SPAM and phishing attempts filtered daily
- **NO ONE FROM UNIT WILL EVER ASK FOR YOUR PASSWORD.**
- View the “IT Security Awareness” organization in Blackboard.
 - Brief videos that cover topics such as: password complexity, avoiding phishing scams, safe social networking practices, etc.

VIDEO CONFERENCING - BLACKBOARD COLLABORATE

The screenshot displays the Blackboard Collaborate interface. The main window shows a white background with the text "Welcome to BB Collaborate" in blue. Above the main window is a toolbar with icons for navigation and editing. Below the main window is a toolbar with icons for video, audio, chat, and other functions. On the right side, there is a chat panel titled "Chat" with a dropdown menu set to "Chat with: Everyone". The chat history shows three messages: "Hello Students" from Kimberly Downey at 2:11 PM, a smiley face emoji from Kimberly Downey at 2:11 PM, and "hi" from Student at 2:12 PM. At the bottom of the chat panel is a text input field with the placeholder "Say something..." and a smiley face emoji icon.

Chat

Chat with: Everyone

Kimberly Downey 2:11 PM
Hello Students

Kimberly Downey 2:11 PM
😊

Student 2:12 PM
hi

Say something... 😊

VIDEO CONFERENCING - ZOOM

Zoom Participant ID: 47 Meeting ID: 573-182-7481

Meeting Topic: Ankit Desai's Personal Meeting Room
Host Name: Ankit Desai
Invitation URL: <https://villanova.zoom.us/j/5731827481>
[Copy URL](#)
Participant ID: 47



Join Audio



Share



Invite Others

Join Audio Start Video Invite Manage Participants 1 Polling Share Chat Record Breakout Rooms End Meeting

MULTIMEDIA – NBC LEARN

 NBC LEARN HIGHER ED

MY PLAYLISTS

TOOLKIT

OFFLINE APP

BROWSE

ADVANCED SEARCH

Current Events

All Collections

Current Events >

African American Studies >

Agriscience >

American Indian Heritage >

Astronomy and Space >

Biology >

Business Administration >

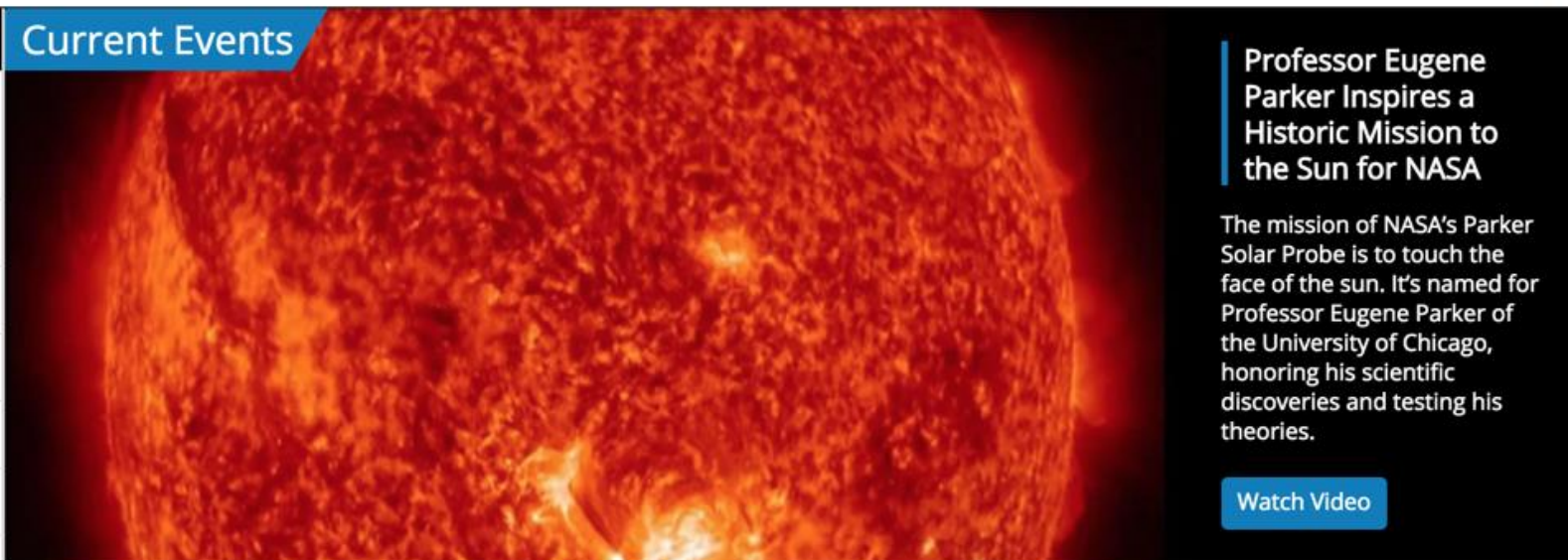
Chemistry >

Communications >

Constitutional Law >

Criminal Justice >

Earth Sciences >



Professor Eugene Parker Inspires a Historic Mission to the Sun for NASA

The mission of NASA's Parker Solar Probe is to touch the face of the sun. It's named for Professor Eugene Parker of the University of Chicago, honoring his scientific discoveries and testing his theories.

Watch Video


Search NBC Learn



RECENTLY ADDED






INTERACTION - YELLOWDIG

Villanovadig Network ▾ Help ▾ Spr18_ECO_3108 ▾ 4 Ankit Desal 

Spr18_ECO_3108

[Feed](#) [Community](#) [Files](#) [Dashboard](#) [Settings](#) [Admin](#)



Yellowdig 05:12 PM EST, 20 Dec Spr18_ECO_3108  

Welcome to Yellowdig

Create a new pin by clicking on the +pin button in the top right of the screen. Make sure to use the topic INTRODUCE YOURSELF so that your pin lumped in with all of the other INTRODUCE YOURSELF pins. You can sort them by clicking on the Topic on the right hand side of the page.

In the pin you can attach a picture of yourself, share a favorite link/video, or attach files. Within the body share where you are from and what you hope to get out of this

[+ Pin](#)

[Sort by Recent Activity ▾](#)

[Add Filters ▾](#)

Unread Only (0)



- Questions?

- Contact:

- Ankit Desai, ankit.desai@villanova.edu

- Andy Cui, gcai@Villanova.edu