XE Roadmap and Student Success
USG & Ellucian Partner meeting – July 13, 2013

Presented by: Ed Hauser
Director for Enrollment & Student Services

Jamie Chambron
Vice President * Management Consulting & Education Services
Agenda Slide

- Ellucian XE
- Banner XE & Roadmap
- Ellucian XE Architecture
- XE Applications Available Today
- XE Development Partners
- XE Applications in Process
- Ellucian On-Demand Subscription Library
  - Technical Training Week
- Q & A
Roadmap Framing and Confidentiality

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Ellucian XE
Ellucian Extensible Ecosystem (XE)

- A vision for how we help institutions thrive during a time of dynamic change
  - An extensible and evolving ecosystem of solutions and services
  - An architectural strategy grounded in common principles and standards
  - A portfolio approach that accelerates innovation
  - A better way for customers to evolve their technology environments and protect their investments
Extending a Strong Administrative Foundation

Self Service

Admin UI

ANALYTICS

CRM: RECRUITING / STUDENT SUCCESS

MOBILE

Liferay/Luminis

PORTAL / WEB

SharePoint-based

PAYMENT CENTER

APIs / Web Services

Banner XE

Colleague XE

PowerCampus XE

Partners

Common Architecture
Trends Shaping Higher, Further and Vocational Education

Revenue Pressures and Austerity
Engaging Students
Education Access and Readiness
Accountability and Outcomes
Global
Transformative Technology

Reclaiming the American Dream
Catalyst for Completion: Performance-Based Funding in Higher Education

55% by 2025

Higher Education Bubble

Cost of College
STUDENT LOAN DEBT

Changing Demographics in Higher Education: The Case for Personalized Learning

Open Courseware Consortium

ellucian.

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## Resulting Higher Education Challenges

<table>
<thead>
<tr>
<th>Category</th>
<th>Challenges</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Funding Pressures</strong></td>
<td>• Revenue management: recruitment, retention, fundraising</td>
</tr>
<tr>
<td></td>
<td>• Increasing enrollment, capacity, revenue generation</td>
</tr>
<tr>
<td></td>
<td>• Tuition pressures and affordability</td>
</tr>
<tr>
<td><strong>Operational Efficiency</strong></td>
<td>• Optimizing resources, containing costs</td>
</tr>
<tr>
<td></td>
<td>• Process transparency, agility, improvement</td>
</tr>
<tr>
<td></td>
<td>• Financial visibility, discipline, controls, metrics</td>
</tr>
<tr>
<td><strong>Student Success</strong></td>
<td>• Services and tools to keep learners on track</td>
</tr>
<tr>
<td></td>
<td>• Diverse, flexible pathways to learning</td>
</tr>
<tr>
<td></td>
<td>• Improving learning outcomes (retention, completion, etc.)</td>
</tr>
<tr>
<td><strong>Accountability</strong></td>
<td>• Timely, reliable, useful information for each stakeholder</td>
</tr>
<tr>
<td></td>
<td>• Measuring and documenting performance, outcomes, compliance</td>
</tr>
<tr>
<td></td>
<td>• Data-driven decisions and discovery-based planning</td>
</tr>
<tr>
<td><strong>Constituents’ Expectations</strong></td>
<td>• Faster, more flexible access to information and services</td>
</tr>
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<td></td>
<td>• Managing and keeping up with pace of technology change</td>
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<tr>
<td></td>
<td>• Education experiences that set your institution apart</td>
</tr>
<tr>
<td><strong>Engaging the Community</strong></td>
<td>• Cultivating relationships with constituents of all types</td>
</tr>
<tr>
<td></td>
<td>• Partnerships with donors, peer institutions, industry, etc.</td>
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<tr>
<td></td>
<td>• Shared services, community source, resources, information, best practices</td>
</tr>
</tbody>
</table>

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From Horizon to Banner XE

- **2009**: Selected Java stack
- **2010**: Shared vision and built initial platform/integration
- **2011**: Shared roadmaps, Delivered Course Catalog and Class Schedule
- **2012**: Delivered XE Roadmaps and additional applications
Higher Education Challenges and Customer Strategic Priorities

- Funding Pressures
- Operational Efficiency
- Student Success
- Accountability
- Constituents’ Expectations
- Engaging the Community

- Usability
- Features / Functionality
- Single Global Product
- Configuration
- Extensibility
- Scalability
- Cloud Delivery
Investments in Banner XE Doubling as Result

- **Usability**
- **Configurability**
- **Features & Functions**
- **Extensibility**
- **Scalability**
- **Off-Premise**
- **Global Product**

Investment:
- **2009-2012**
  - Horizon/Banner9
  - Q4 2012 Forward
  - Banner XE
<table>
<thead>
<tr>
<th>Year</th>
<th>Jan-Jun</th>
<th>Jul-Sep</th>
<th>Oct-Dec</th>
<th>Jan-Mar</th>
<th>Apr-Jun</th>
<th>Jul-Sep</th>
<th>Oct-Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
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<td>2013</td>
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<tr>
<td>2014</td>
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</tbody>
</table>

**Investment Category:** Helps to group targets for any release into primary investment categories:

- **Technology:** This release is focused on architectural enhancements.
- **Quality:** This release is focused on quality.
- **Features:** This release is focused on features and functions.
- **APIs:** This release is focused on APIs.

**Release Theme:** Summary level description of release scope or theme

**Target deliverable:** features, capabilities, architectural enhancements, etc. Color indicates confidence level

**Confidence Level Legend:** See definitions and disclaimers on next slide

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Confidence Level Definitions

We use the term **confidence level** to describe the likelihood that the items on the roadmap will be delivered at the dates shown on the timeline. There are many factors that impact our ability to predict delivery including but not limited to:

- **Customer priorities** – Our releases are driven by customer feedback and prioritization. Sometimes the priorities change due to any number of external factors. At any time, we may change the priorities in any given future release to better reflect our customers’ interests.

- **Quality Targets** – Each of our product releases undergoes a stringent quality assurance process prior to release. Should a particular capability not meet our quality targets, we may choose to defer that specific capability to a future release or not complete the development of that capability at all.

- **Design Constraints** – In response to customer feedback, we attempt to provide visibility beyond the next product release. In doing so, we share capabilities that reflect customer requests but have not gone through the technical design phase. In some cases, the technical design phase will reveal a larger level of effort and dependencies that make the original timeframe infeasible. Further, the design phase could reveal that the capability is not technically feasible at all or not cost effective resulting in abandonment of effort.

- **Budget Cycles** – For roadmaps that might include visibility beyond the current Ellucian fiscal year budget, all items are subject to financial progress against goals and the availability of funds for that particular project in future budget cycles.

- **Engineering Forecasting Accuracy** – All roadmap items are subject to some level of forecasting accuracy imprecision resulting in certain functionality pushing out to later releases on a roadmap timeline.

The further out the release date, the higher the likelihood that one or more of these factors will impact the accuracy of our roadmaps. That is why we clearly indicate less than 100% confidence for our next release even though it may scheduled to be released in the short-term, and why we use decreasing confidence levels for items that are further out on the roadmap.
Banner XE Student

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Registration Alpha I</td>
<td>Jan-Jun</td>
<td>Jul-Dec</td>
<td>Jan-Jun</td>
<td>Jul-Dec</td>
<td>Jul-Dec</td>
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<tr>
<td>Event Management</td>
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<tr>
<td>Attendance Tracking</td>
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<tbody>
<tr>
<td>Universal Installer</td>
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<td>Release System</td>
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<tr>
<td>Integrated CAS</td>
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<tr>
<td>Add Data Fields</td>
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<tr>
<td>Page Configuration/Customization</td>
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<table>
<thead>
<tr>
<th>APIs</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
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<tr>
<td>Platform APIs</td>
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<tr>
<td>Advising Roster</td>
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<tr>
<td>Submit Grades</td>
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<tr>
<td>Course/section</td>
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<tr>
<td>Class Schedule</td>
<td></td>
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<tr>
<td>Student Info</td>
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</thead>
<tbody>
<tr>
<td>Quality Releases</td>
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</table>

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Timing is Everything

- First half of the roadmap is designed to impact learning and student success:
  - Self Service for Advisors, Faculty, and Students
  - All Academic Administrative functions
- Second half of the roadmap is designed to have greater impact on efficiencies and student financial management
  - Business Process Management and Automation
  - Fee Assessment, Financial Aid, A/R
Banner XE Architecture
Migration from Legacy to New Architecture

The Database stays the Same

Benefit = Stability
Benefit = Flexibility

Oracle Database
Migration from Legacy to New Architecture

Legacy Oracle Based Technology Stack

Oracle Database

Banner 8 Apps Built on Oracle Stack
Migration from Legacy to New Architecture

- Grails Uses Groovy and Runs on the JVM

<table>
<thead>
<tr>
<th>Legacy Oracle Based Technology Stack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banner INB</td>
</tr>
<tr>
<td>Banner SSB</td>
</tr>
<tr>
<td>Forms</td>
</tr>
<tr>
<td>Forms Applet</td>
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<tr>
<td>SQL NET</td>
</tr>
<tr>
<td>PL/SQL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Architecture Technology Stack</th>
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</thead>
<tbody>
<tr>
<td>Grails Framework</td>
</tr>
<tr>
<td>Banner Applications</td>
</tr>
<tr>
<td>Banner Components</td>
</tr>
<tr>
<td>Shared Services</td>
</tr>
<tr>
<td>Open Source</td>
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<tr>
<td>3rd Party Comp.</td>
</tr>
<tr>
<td>Java Technology</td>
</tr>
</tbody>
</table>

Oracle Database

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Migration from Legacy to New Architecture

Web 2.0 UI Technology
Reusable Common Components

Oracle Database

Banner INB
Forms
Forms Applet
HTML Cartridge
SQL NET
PL/SQL

Banner SSB

Banner Applications
Banner Components
Java Technology

Grails Framework

Shared Services
Open Source
3rd Party Comp.

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Migration from Legacy to New Architecture

Modular Self-Contained Applications

Oracle Database

Easier Upgrade

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Banner XE is Available Today!

- Catalog & Schedule – September 2011
  - Improved global user experience

- Faculty Grade Entry – January 2012
  - Improved grading tools help better serve students

- Attendance Tracking – September 2012
  - Record attendance on a learning event
  - Complements Faculty Grade Entry

- Event Management – February 2012
  - More efficient registration and attendance

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Banner XE Development Partners
Banner XE Development Partners

- Each XE project has a set of partners
- Assist the development teams:
  - Weekly calls
  - Requirements definition
  - Page design – wireframes
  - Process flow
  - Alpha testing
  - Controlled release testing – and adoption
- Critical to XE success!
Catalog & Schedule Development Partners

The UNIVERSITY of OKLAHOMA

KENT STATE UNIVERSITY

BCIT

TEXAS TECH UNIVERSITY

Smith College

SUNY The State University of New York

SICAS

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Faculty Grade Entry Development Partners
Attendance Tracking Development Partners
Event Management Development Partners

ESSEC BUSINESS SCHOOL
Tarleton State University
RIDER UNIVERSITY
SCAD SAVANNAH COLLEGE of ART and DESIGN
LEHIGH UNIVERSITY
Florida Keys Community College
TEMPLE UNIVERSITY
UNIVERSITY of ILLINOIS Urbana-Champaign • Chicago • Springfield
UNIVERSITY of DAYTON
The College of St. Scholastica

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XE Early Adopters

- Liberty University – Catalog & Schedule
- Purdue University Main Campus
  - Faculty Grade Entry
- Shippensburg University of PA
  - Catalog and Schedule
  - Faculty Grade Entry
- University of Oklahoma Norman Campus
  - Faculty Grade Entry
## Banner XE Applications in GA – Next Releases

<table>
<thead>
<tr>
<th>Application</th>
<th>Key Deliverables</th>
<th>Target Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Catalog 9.1.0.1</td>
<td>• Patch Release to fix key issues raised by Early Adopters</td>
<td>July 2013</td>
</tr>
<tr>
<td>Class Schedule 9.1.0.1</td>
<td>• Patch Release to fix key issues raised by Early Adopters</td>
<td>July 2013</td>
</tr>
<tr>
<td>Attendance Tracking 9.0.0.2</td>
<td>• Patch Release to fix key issues raised by Early Adopters</td>
<td>July 2013</td>
</tr>
<tr>
<td>Event Management 9.2</td>
<td>• Support for CAS in Event Admin • Performance Improvements for multiple functions</td>
<td>August 2013</td>
</tr>
<tr>
<td>FGE 9.2</td>
<td>• Focus on Grade Import/Export Performance Improvements and Defect Resolutions</td>
<td>August 2013</td>
</tr>
<tr>
<td>Catalog and Schedule 9.2</td>
<td>• Code in Git Repository • Performance and Memory Usage Improvements</td>
<td>Sep 2013</td>
</tr>
<tr>
<td>Attendance Tracking 9.1</td>
<td>• Migrate to latest Platform and address key open issues</td>
<td>Q4 2013</td>
</tr>
</tbody>
</table>
XE Projects in Development

- XE Registration
  - CR 1 – Q4 2013
  - GA – Q4 2014
- XE Admissions & Recruiting – Q4 2013
- XE Advising – Q4 2013
- XE Academic History – Q4 2014
- Banner Communications Management – Q2 2014
XE Registration
Banner XE Registration Objectives

New Registration and Advising Experience

- Enhanced user experience
  - Students, Advisors and Administrators

Options for Multiple Registration Models

- Supports Search & Select, Block and Structured Registration

Incorporates Degree Planning Information

- Option to include CAPP or DegreeWorks data
  - As part of the registration planning process

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Advising and Registration Models

- New registration summary and calendar metaphor
- New Registration & Degree plan function
  - DegreeWorks Student Education Plans (SEP)
  - Registration – create term registration plans
    - Course or section
    - Create registration plan from DW SEP
  - Projected or suggested courses
    - Must write output to Ellucian web service and APIs
      - CAPP and Other degree audit systems
- Enhanced Block Registration
  - Structured blocks of classes defined by each customer
- Structured or Programme Based
  - UK, Ireland and Australian model
  - Compulsory modules are prescribed
  - Optional and Elective module choice

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### MGMT 125 CRN 10010: Duplicate Course with Section 10016

**Error Message:**

- **MGMT 125 CRN 10010:** Duplicate Course with Section 10016

**Search Results:**

- **Managerial Philosophies**
  - MGMT 125 0015 Fall 2013: Tanya Mari (Primary)
  - MGMT 125 0018 Fall 2013: William Latoff (Primary)
  - MGMT 125 0019 Fall 2013: Brent F. Johnson (Primary)

**Schedule for Fall 2013:**

- **8am:** Managerial Philosophies
- **9am:** Managerial Philosophies
- **10am:** Managerial Philosophies
- **11am:** Weight Training
- **12pm:** Managerial Philosophies
- **1pm:** First Aid & CPR

**Total Hours:** Registered: 14 | Billing: 14

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What’s Changing

- All registration related administrative forms
- All registration related SSB
  - Students and advisors
- New student & advisor pages
- New administrative pages
  - Support advising and new registration models
XE Registration Timeline

- **Project Kickoff**
  - Nov. 3, 2011

- **Alpha I release**
  - Oct. 25, 2012

- **Alpha II release**
  - Mar. 11, 2013

- **Controlled release I**
  - Q4 2013

- **Controlled release II**
  - Q2 2014

- **General release**
  - Q4 2014
Persona Focus

- Students first
  - Alpha I, Alpha II, Controlled release I
- Advisors and Administrators next
  - Controlled Release II – Q1 2014
  - General Release – Q4 2014
XE Registration Development Partners

- Texas Tech University
- Island Living, Island Learning
- Kent State University
- University of Leeds
- Georgetown University
- Alabama Crimson Tide
- Centennial College
- The University of Oklahoma
- University of Denver
- ICTI Institutes of Technology Ireland
- Universidad de los Andes (Colombia)
- University of Dayton
- Purdue University

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Questions & Answers
Other XE Projects in Development
Admissions & Recruiting - Multiple Phases

Phase I – Q4 2013

- Expanded data
- Single customizable tool for data exchange
- Forms Conversion General Person, Recruiting, Admissions
- Enhance the User Experience through the new XE look and improved process flow

Phase II – Q2 2014

- Enhanced rules processing in ratings, decisions and confirmations
- Enhanced Checklist rules and functionality
Admissions/Recruiting Development Partners

The College of St. Scholastica
100 1912-2012

Drexel University

SUNY GCC
Geneese Community College

Kent State University

Université Laval

Georgian College

University of Illinois
Urbana-Champaign • Chicago • Springfield

Oregon Health & Science University

University of Maryland
The Founding Campus

Texas Tech University

University of Leeds

ellucian.
Advisor Self Service

Purpose:
- Enable Advisors, Tutors, Mentors, AND Students to view (phase one) and work with (phase two) a profile of key institutional information to inform the best decisions and directions possible.

Status:
- Kicked off in April 2013
- Development Partner Group formed.

Deliverables
- Advising Roster, with key student data available at first glance
- Student profile with 2 dozen default data elements
- Step one in rationalizing the notes/comments/interactions functionality

Time Frame
- Alpha – Sept. 2013
- Controlled Release – Oct. 2013
- GA – November 30, 2013
Advisor Self Service Development Partners

- Kent State University
- UVU Utah Valley University
- Drexel University
- Royal Holloway University of London
- St. John's University
- Universidad San Francisco de Quito
- The College of St. Scholastica
Academic History – Phase 1 – Started in May

Academic History 9.0 – Beta (Controlled Release) - Jun 2014

- Forms conversion for the administrative processes and any related Self Service functionality for ‘End of Term’ processing
  - Grades and Grading
  - Roll to Academic History and Grade Maintenance
  - Repeat Processing
  - GPA Calculation
  - Academic Progress
  - Transcript requests
  &
  - Academic Standing

Global
- Enhanced Electronic Grade Book - ESC
Academic History – Phase 2

Academic History 9.0 – GA (scheduled for Dec 2014)

- Forms conversion for the administrative processes and any related Self Service functionality for ‘End of Term’ processing
  - Graduation Processing
  - Graduation Ceremonies
  - Awarding Degree
## Banner Communication Management

### Purpose
- Enable tactical and operational communications associated with administration functions

### Status:
- Kicking off in August 2013
- Development Partner selection in July 2013

### Preliminary Scope
- Multi Channel Communication with Students
- Ability to communicate with other constituents (Faculty, Parents, Administrators)
- Communication Capability in XE Technology

### Technical Approach
- UI and Usability Improvements consistent with Banner XE
- Security/IDM/I18N infrastructure that is consistent with Banner XE
- Common table naming conventions and other protocols consistent with Banner Student XE
- MEP support
APIs

- APIs are delivered as RESTful Web Service
- Process will start by exposing the APIs for delivered XE applications
- Provide institutional developers with developers guide and standards to develop and support APIs
Banner XE Configurability & Extensibility

Customization
- Application Skinning
- Changing Text & Labels
- Data Masking & Supplemental Data Engine

Extension
- Adding or Removing a Field (UI and Model)
- Augmenting Business Logic
- Changing Business Rules

Modification
- Accessing Git repositories
- Using modern development practices
- Using Banner XE Platform

Integration
- Framework plugins
- SSO
- Menu Integration
“Making sure Banner 8 is supported for a long time because most clients don't have the budget or human resources to upgrade to 9 especially since the upgrade involves fundamental changes in technology.”
Student Success
Ellucian Student Success Framework

- Predictive Indicators
- Early course struggles
- Interaction on campus
- Financial struggles
- General engagement

- Class availability
- Schedule planning
- Degree progress
- Registering for courses
- Engaging on campus

- Predictive Analytics
- Look for patterns
- Effectiveness of approaches
- Comparison metrics
- Transparency of progress

- Reducing Friction
- Campaigns
- Alerting faculty/staff
- Feedback to students
- Process best practices
- Configurable Dashboards

- Insight & Analytics
- Tailored Learning Experience
- Ellucian does not provide solutions in this area today but may bring partners to address this area

Ellucian Confidential
Student Success Core Design Summary

Indicator Categories
- Historic Predictors
  - Academic Potential
  - Demographic
  - Socio-economic Engagement
- Course effort
- Extra-curricular
- Advising
- Financial
  - Financial Aid
  - Payments
Academic
- Grades
- Enrollment Status
- Degree Progress
Behavioral
- Incident Reports

Analysis/Interpretation
- Weighted
- Scored
- Historic Comparison
- Peer Comparison
- Binary Indicator

Action/Engagement
- Communication
- Workflow
- Alert
- Campaign
- Additional Analysis

Peer/Cohort comparison
Student Success Dashboards
Summary
Where to learn more about Banner XE

- Visit the Banner Commons
  - Evolving to Banner XE page
    - Read the FAQs
    - Functional and technical webinars
    - Explore the Banner XE digital shorts
- Product Roadmaps
  - Ellucian.com/roadmaps
Driving Your Course to Banner XE

- READY
  - Visit Evolving to Banner XE on Commons for information on what has already been delivered

- SET
  - Put Together Your Banner XE Project Plan

- GO
  - Get Involved with Banner XE
Q & A
ed.hauser@ellucian.com
Education Services

Ellucian On-Demand Subscription Library

Technical Training Week
Jamie Chambron
Vice President * Management Consulting & Education Services
The Importance of Continuing ERP Education

“ERP systems constantly change due to upgrades, additional features, or addition of new functionalities. In addition, knowledge leakage due to employee attrition can be as high as 25% in any given year. Consequently, ERP training is an ongoing business requirement and not a one-time event. Best practices suggest providing recurring refresher training to all system users. Also, to ensure ongoing knowledge retention, many of our clients make the successful completion of appropriate training courses part of the employees’ annual performance evaluation.”

Learning Solutions Magazine
5 Tips for a Successful ERP Training Program
Training is Becoming Difficult!

- We can’t travel to attend training classes.
- We can’t afford to be tied up in training classes for long periods of time.
- We need on-demand, just in time knowledge to increase efficiency and productivity.
- We need a quicker way to bring new employees up to speed.
- We need to equip our experienced users with tools for augmenting their expertise.
The Ellucian On-Demand Subscription Library
24x7 eLearning on Ellucian Solutions

- Features
  - Access Anytime and Anywhere
  - Updated Continually

- Employee View
  - Be More Efficient by Staying Continuously Trained on Solution Functionality
  - Reduce Time Away from Day Job by Consuming Short Snippets of Education (20 minutes average) versus Days of Training
  - Access Training Just in Time to Do Something Different

- Manager/Institution View
  - Bring New Employees Up to Speed Quickly on Ellucian Systems
  - Track Employee Progress and Completion of Training
  - Enable Schools to Stay Current on Ellucian Solutions and Avoid the “Value Gap”
  - Provide Cost Effective End User Training
  - Free up time for IT to focus on technology management not end user training
Ellucian On-Demand Subscription Library

- Subscription-based library of eLearning courses available to your institution’s entire staff
- Primarily video-based training averaging 20 minutes per course
- Over 4,000 courses across 5 course collections... and growing monthly

July 11, 2013
Ellucian On-Demand Subscription Library

Managing Campaigns and Communications Overview

Meet the Recruiting and Admissions Team
Rollover each person to find out about their challenges and the role they play.

Shawn Diaz is an Admissions Counselor at Ellucian University. Her primary focus is on interacting with top prospects and coordinating on-campus events.

Her biggest challenge is responding to individuals and responding to the same question from multiple individuals. She also needs to organize and prioritize her tasks so that the on-campus events are a success.

In this course, you will see how Shawn Diaz uses ad-hoc activities to plan tasks and communicate with her top prospects.

Kallie Baker, Director of Admissions
Shawn Diaz, Admissions Counselor
Andrew Kline, Admissions Counselor

Recorded Demo @ http://www.ellucian.com/educationservices/
For live demo or trial account contact edservices@ellucian.com

July 11, 2013
# Technical Training Week
## Sept. 30 – Oct. 3, Reston VA

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<td>8:30 AM</td>
<td><strong>REGISTRATION OPEN</strong></td>
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<td>10:00 AM</td>
<td><strong>Opening session and morning break</strong></td>
<td><strong>Installing and Configuring the Web Logic Server</strong></td>
<td><strong>Preparing for a Banner XE Install</strong></td>
<td><strong>Modifying Banner XE Code</strong></td>
<td><strong>Luminis Roadmap and Luminis 5.1 Overview</strong></td>
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<tr>
<td>1:30 PM</td>
<td><strong>Installing and Configuring the Web Logic Server (cont.)</strong></td>
<td><strong>Preparing for a Banner XE Install (cont.)</strong></td>
<td><strong>Modifying Banner XE Code (cont.)</strong></td>
<td><strong>Enabling Single Sign-On for Luminis</strong></td>
<td><strong>Improving Operational Efficiency Through Business Process Revitalization</strong></td>
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<td>8:30 AM</td>
<td><strong>Tuesday</strong></td>
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<tr>
<td>10:15AM</td>
<td><strong>Get Ready for Groovy Grails</strong></td>
<td><strong>Installing and Configuring the Web Logic Server</strong></td>
<td><strong>Moving from Luminis 4.0 to 5.04</strong></td>
<td><strong>Installing and Configuring BEIS for Inbound Provisioning</strong></td>
<td><strong>Roundtable Discussion</strong></td>
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<tr>
<td>1:30 PM</td>
<td><strong>Installing, Configuring, and Administering the Git Repository Server (cont.)</strong></td>
<td><strong>Modifying Banner XE Code (cont.)</strong></td>
<td><strong>Installing and Configuring BEIS for Outbound Provisioning</strong></td>
<td><strong>IT Governance: Roundtable Discussion</strong></td>
<td><strong>IT Governance: Roundtable Discussion</strong></td>
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<tr>
<td>10:15 AM</td>
<td><strong>Installing, Configuring, and Administering the Ellucian Solution Manager</strong></td>
<td><strong>Installing and Deploying a Banner XE Application</strong></td>
<td><strong>Developing Portlets</strong></td>
<td><strong>An Overview of Single Sign-On for INB and SSB</strong></td>
<td><strong>Using Analytics and Scorecards to Support Institutional Outcomes</strong></td>
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<tr>
<td>1:30 PM</td>
<td><strong>Installing, Configuring, and Administering the Ellucian Solution Manager (cont.)</strong></td>
<td><strong>Modifying Banner XE Code (cont.)</strong></td>
<td><strong>Developing Portlets (cont.)</strong></td>
<td><strong>Installing and Configuring Single Sign-On for INB and SSB</strong></td>
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<td>8:30 AM</td>
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<tr>
<td>10:15 AM</td>
<td><strong>Tuning Your Banner Environment</strong></td>
<td><strong>Enabling Single Sign-On with Banner 8x and Banner XE</strong></td>
<td><strong>Modifying Banner XE Code (cont.)</strong></td>
<td><strong>Installing and Configuring Single Sign-On for INB and SSB (cont.)</strong></td>
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*Ellucian.*

July 11, 2013
Thank You!

Jaime.Chambron@ellucian.com
http://www.ellucian.com/educationservices/

Email edservices@ellucian.com for Demo Account or More Information