Promoting Student Self-Direction

Critical Policies and Innovative Technologies for Smarter Academic Navigation

Not Just Practical, But Principled Concerns About Intrusive Advising



The Enrollment Counselor

"Upon calling WGU I was assigned an enrollment counselor who would take me through the process of applying... He streamlined the process for me and tracked my progress. We had scheduled conversations through the entire process."

The Personal Mentor

"At WGU your mentor's job is to assist you in making viable choices and achieving your goals. They are also responsible for tracking your progress. Each week I have a scheduled phone call with my mentor during which we set my weekly goals. Not semester goals, weekly goals."

Western Governors University Student

Quantity and Quality



Will "Throughput" Gains Undermine the Value of Education?

The Allure of the "No Frills" University as a Completion Panacea

...But at What Cost?



Streamlined Curriculum



Comprehensiveness and Choice



Accelerated Programs



Rigor and Exploration



Personal Success Coaches



Student Responsibility





Inexpensive



Co/Extra-Curricular Options



"

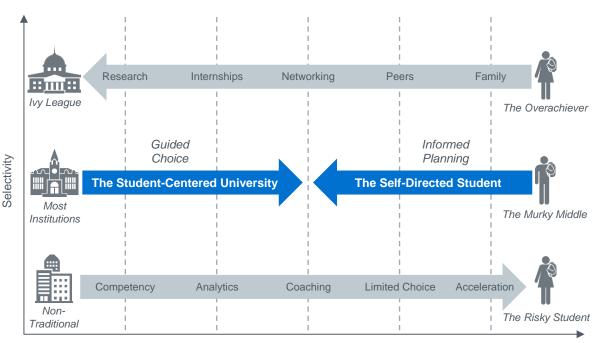
It seems to me that the completion engine has hurtled down the track with a lot of states putting in financial rewards and penalties for speeding up completion and cracking down on excess credits. Then there's the quality engine, still struggling to get out of the shed.

- Carol Geary Schneider, President, AAC&U

Meeting Students Halfway



Navigating Between Extremes in Student Success



Student Independence

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Labyrinthine Service Structure an Unnecessary Obstacle for Students

Five offices, three Student needs to obtain ID card. faxes, two phone secure housing. calls, and four miles and complete later, it's done! registration

"Because there are no one-stop registration centers and because both academic units and central support service units want to regulate the registration process, an unfortunate student can walk several miles and cross the Mississippi River numerous times to complete registration—assuming everything goes right."

- Robert B. Kvavik and Michael N. Handberg, "Transforming Student Services," Educause Quarterly

1

The Slippery Slope to Attrition



Seemingly Small Choices Can Derail Long-Term Plans



Student doing poorly in several classes this term. doesn't feel engaged



What went wrong, and when?

Wants to switch courses but can't get advising appointment; frustrated by reception at registrar's office

Support Services

Stays enrolled, but fails two courses and enters probation

Doesn't see how course is relevant to major and career goals; merely delaying more applicable experiences

Engagement

Leaves for alternate institution with clear experiential focus

Not sure if she's cut out for college, doesn't fit in. Drops two courses and spends more time at home with parents

Commitment

Withdraws from the institution and enrolls in community college

Wandering aimlessly through courses and programs, accumulating credits but failing to graduate

Progress

Leaves as financial aid expires and enters workforce without BA



Critical Policies and Innovative Technologies for Smarter Academic Navigation

How do I help students make better decisions without massive new investments in advising?

Scaling Student Self Service



- Actionable Checklists
- Service Tutorials
- Personalized Alerts
- **Engagement Feed**

Enabling Integrated Planning



- Configurable Degree Maps
- Co-Curricular Timelines
- Experiential Planning Policies

How do I reduce the likelihood and costs of failure without sacrificing rigor?

Sustaining **Academic Momentum**



- Preemptive Resilience Exercise
- Course Load Incentives
- Multi-term Registration
- Withdrawal Survey Modules

Reducing **Deviation Costs**



- Withdrawal Redirect Courses
- Macro Majors
- Last Mile Initiatives

User-Centric Design

A Full Experience

Curricular Guardrails

Student Safety Net

Traditional Support Structure Inefficient, Expensive, and Impersonal

Removing Logistical Barriers to Self-Support Allows Staff to Reallocate Time **Automation** Automation Student reliant on staff Student able to resolve for basic transactions majority of problems Self Help Self Help Generalist Generalist Staff time reallocated to Staff time wasted on service design, advising processing, data entry **Specialist Specialist**

> Specialist Bottleneck Means New Staff Only Way to Improve Service

From Information Resource to Engagement Application



One-Stop Transactions

Focus: Interaction

- To-Do Checklists
- Actionable Alerts
- Guided Tutorials

Focus: Information

- Comprehensive Service Listing
- Web-based Forms
- FAQ Database

Personalized Triage Tool

Focus: Engagement

- Custom Student Feed
- User Analytics
- Holistic Data Integration

Focus: Interaction

- To-Do Checklists
- Actionable Alerts
- Guided Tutorials

Focus: Information

- Comprehensive Service Listing
- Web-based Forms
- FAQ Database

5% of Institutions

of Institutions

Personalization

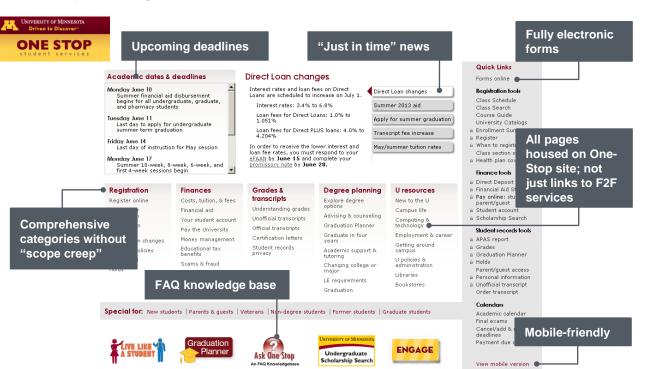
Focus: Information

Central Service Gateway

- Comprehensive Service Listing
- Web-based Forms
- FAQ Database

Step One: The Central Service Gateway

One-Stop Redesign Eliminates Information Barrier



Core Components of a Progressive Portal



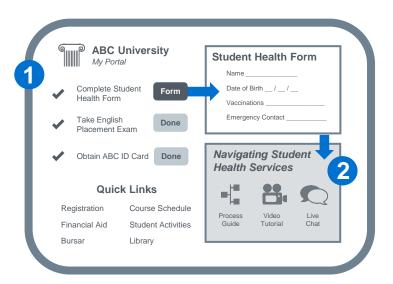
Maximizing Impact and Adoption Through Focus on Student Action

1 Actionable Checklists 2 Service Tutorials

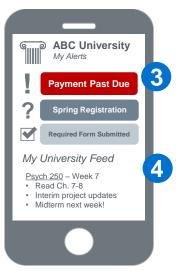
- Personalized Alerts
- Feed

Engagement

Self-Service Hub Focused on Process Navigation



Personalized Action Items Pushed to Students



One Step at a Time

17

Simplifying Action Items for Defined Student Segments

Tailored Checklists Focus Clear Links to Actions Simple Web Forms Enable **Attention on Relevant Tasks** and Further Information Instant Resolution (()) **Create Login ID** 2014 Housing Application **OLD DOMINION** * Required UNIVERSITY Name Apply for Financial Aid My Status Alerts 3/3 * Optional Address My Checklists Info **Apply** Status Fall 2014 Freshman 2/10 **Pay Admissions Deposit** Fall 2014 Transfer 2/2 * Required **Pay Deposit** > My Systems Bb Blackboard Apply for Housing When forms or documents Library * Optional must be physically delivered... Gmail Info **Apply** Checklist status is Outlook updated once received MyAdvisor Processing time listed in A+ Tutoring task description

Guiding Students Through Complexity

Accessible Tutorials Reduce Reliance on One-on-One Assistance



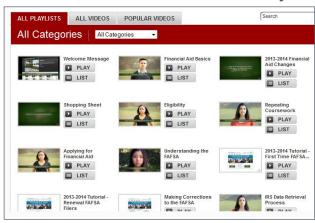
UC Santa Barbara's < 1 Minute Video Guides



#1 Google Result for "FAFSA Steps"



Financial Aid TV's Customizable Library



47,000+ Views in First Year at Rutgers U.

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Source: EAB interviews and analysis.

1

From Generic to Personal



"Action Center" Highlights Student-Specific Issues and Opportunities



Student Data Powers Three-Tier Alert System

	Urgent	Attention	Eligible
Enrollment	Zero Courses Next Term	Early Enrollment Advising	Honors Programs
Academic Standing	Probation / Mandatory Remediation	Review Impact of Low GPA	Scholarships Available
Degree Progress	Missing Requirement > 60 credits	Missing Requirement < 30 credits	Peer Tutor
Attendance	Missed Multiple Classes	Missed One Class	RA Position

Each Alert Enables and Requires Action



98.5% Share of students that

have viewed alerts

171,000

Unique actions taken since 2011

Top Principles for Notification Design

Alert Criteria Prevent Oversaturation and Promote Impact

Impact on Success

- Addresses student persistence
- Geared toward specific population
- Can be categorized by type / urgency

Reserved for critical issues

Concision

- Header less than 50 characters
- Fewer than 5 explanatory sentences
- Scanable, simple content

Short and to the point



Call to Action

- Requires student to take an action
- Links directly to relevant next step
- Links directly to more information

Pathway to resolution



Toolkit: Portal Design Principles

- Alert purpose and approach
- Rules for action steps and descriptions



A Data-Driven Lesson in User-Centered Design



Innovative Mobile App Reflects and Inflects Holistic Student Experience







To a Health Indicator...



...To a Personalized Feed



Calibrating Messages With Analytics

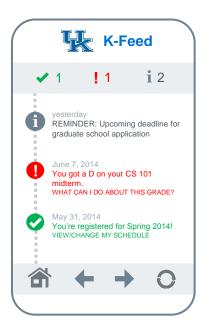


Microtargeting Enables Bigger Impact and Deeper Analysis

Easy to Get Lost in Sea of Messages from Administration, Clubs, Friends, and Family



Analytics Behind K-Feed Enable
Personalization and Ensure Relevance



Flexible Platform

Campus units opt in; not an administrative mouthpiece

Smart Curation

IT/Analytics group can tailor feed according to usage metrics

Micro-Surveys

Institution and feed gain valuable data from targeted user input

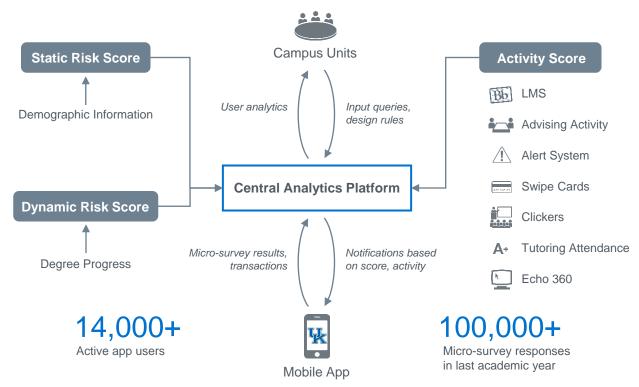
Parent Opt-In*

Students can allow parents to view feed to aid awareness

Behind the Scenes



Timely, Personalized Feedback Requires Advanced Infrastructure





- Migrate as many paper-based processes and transactions to the web as is permissible and possible at your institution, to help both on- and off-campus students interact more easily with support services.
- Online support services and transactions should be integrated into a central student portal optimized for multiple platforms, preventing a "virtual runaround" that mirrors the physical separation of many campus support offices.
- Develop curated, step-by-step support guides tailored to student segments and complex processes to reduce student dependence on staff for basic transactional support.
- Allow students to take immediate action to address holds, restrictions, and other problems communicated through portal alert systems by providing clear action links.
- 5 Enable real-time, personalized interventions and recommendations through the use of a central analytics platform combining student records, academic performance data, engagement activity, and advising information.

Promoting Student Self-Direction



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How do I help students make better decisions without massive new investments in advising?

1

Scaling Student Self Service



- Actionable Checklists
- Service Tutorials
- Personalized Alerts
- Engagement Feed

2

Enabling Integrated Planning



- Configurable Degree Maps
- Co-Curricular Pathways
- Experiential Planning Policies

How do I reduce the likelihood and costs of failure without sacrificing rigor?

3

Sustaining Academic Momentum



- Preemptive Resilience Exercise
- Course Load Incentives
- Multi-term Registration
- Withdrawal Survey Modules

4

Reducing Deviation Costs



- Withdrawal Redirect Courses
- Macro Majors
- Last Mile Initiatives

User-Centric Design

A Full Experience

Curricular Guardrails

Student Safety Net

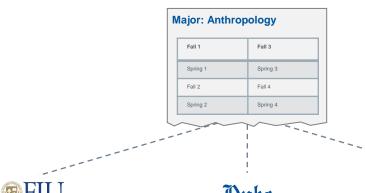


Focus on Near-Term Academic Navigation Shortchanges Experience



The Next Generation

Today's Degree Mapping Tools Better Track Actual Student Paths





Uses historical data to identify courses and grade thresholds most correlated with success

 Incorporates critical courses and grade thresholds into degree maps

Duke.

Scenario Planning

- Allows students to model future paths to degree, incorporating coursework and co-curricular options
- Accounts for courses completed and future availability to alert students when a proposed plan does not fulfill requirements

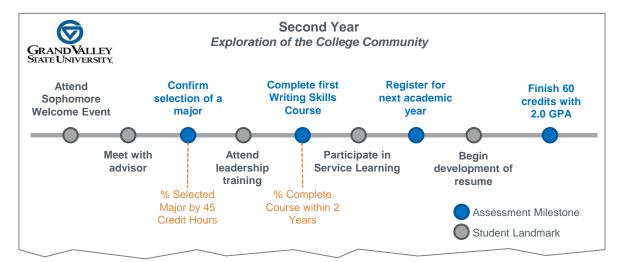


Monitoring Capability

- Tracks student progress against proposed degree plan
- Responds to deviation from the major plan with messages or requirements based on the significance of the divergence

Outside the Classroom Walls

GVSU Blueprint for Student Success Tracks Experiential Milestones



Comprehensive Inventory

Includes academic and co-curricular roadmap for each year in student's career

High Visibility

Introduced at student and parent orientations, used by advising centers, published in student guides

Joint Accountability

Shared benchmarks for tracking completion of landmarks by students and institution

The Right Activities for Me

Major-Specific Co-Curricular Maps Provide Tailored Recommendations

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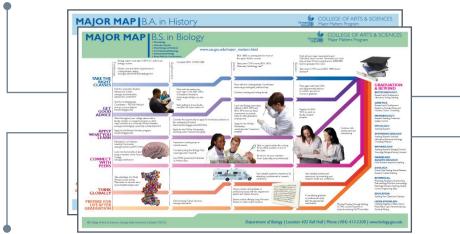
Unique to Major

Individual map for each of the 30 Arts and Sciences majors



Relevant Career Paths

Lists relevant career paths open to students in particular major



Early Planning Prompts

Co-curricular prompts begin in first year

Co-curricular Opportunities

Suggests on- and off-campus activities alongside curriculum

Getting Guidance In Front of Students



Required

Four Ways to Expand Experiential Conversation and Participation

Spans Career



Career Development Courses

- Sequence of four 1.5-credit career courses beginning in first year
- Facilitates early career and cocurricular planning, progressing from personal exploration to workplace readiness skills

TIFFIN

Co-Curricular Policy

 Requires all university students to participate in a required number of co-curricular, personal development, and service learning activities

Optional



Seminar in Major

- 1 credit first year course co-taught by faculty and academic advisor
- Includes early exploration of career options associated with major and long-term planning for experiential learning participation



Career Workshop

- Mandatory workshop for second semester freshmen
- Outlines co-curricular transcript development, requires career preparation planning

I

First Year Only

3



- Advising conversations and prescriptive degree maps are typically focused on nearterm curricular decisions, making it difficult for students to incorporate co-curricular, experiential, and pre-professional considerations into their planning.
- To enable longer-term academic planning, invest in a configurable degree audit tool that allows students to foresee the long-term consequences of next-term decisions and alerts them when their progress deviates from their expressed plans.
- Co-curricular expectations and resources should be mapped to particular student segments, cohorts, and academic programs, so that students can easily identify relevant opportunities.
- Incorporate co-curricular planning into credit-bearing or mandatory student activities to expand the conversation beyond advising appointments and campus offices.

Critical Policies and Innovative Technologies for Smarter Academic Navigation

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Scaling Student Self Service



Enabling Integrated Planning



How do I reduce the likelihood and costs of failure without sacrificing rigor?

Sustaining **Academic Momentum**



- Preemptive Resilience Exercise
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Reducina **Deviation Costs**



User-Centric Design

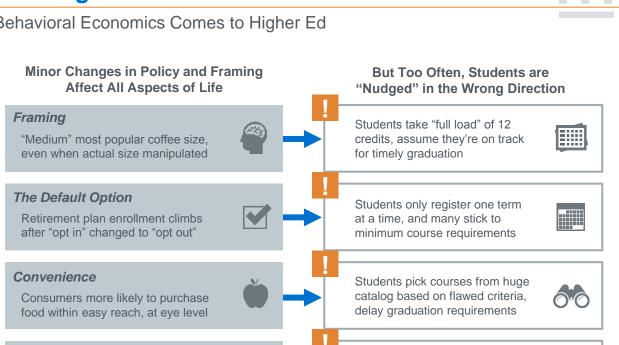
A Full Experience

Curricular Guardrails

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Steering Choice Architecture in Our Favor

Behavioral Economics Comes to Higher Ed



Burdening Bad Choice

Motorcyclists must pass extra test and prove insurance to forgo helmet

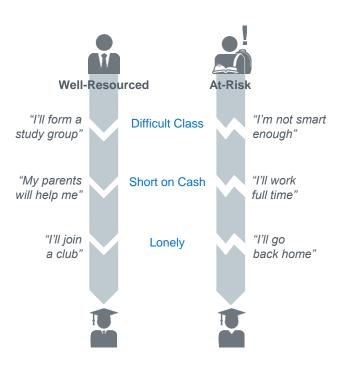


Students able to withdraw from courses, drop out, or deviate from plans with easy transaction



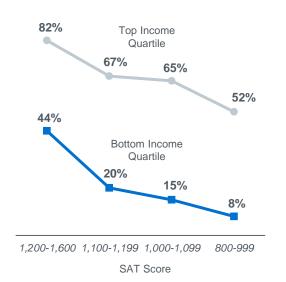
The Role of Resilience

At-Risk Students Often One Obstacle Away from Attrition



The Achievement Gap

Chance of Earning a Four-Year Degree by Age 24



Building a "Belonging" Mindset

UT Austin's Innovative Psychosocial Intervention for Risky Students

37

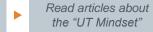
THE UNIVERSITY OF

Complete online

orientation activities

Welcome!

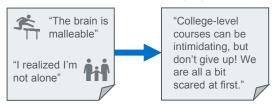
- How to Register
- Student Groups
- Signature Course Information
- **Changing Colleges**
- Important Campus Resources
- Vaccine Requirement
- The "UT Mindset"
- 8. Honor Code



Reflect on material to help future students

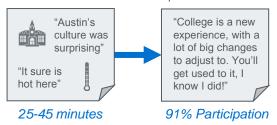


Growth Mindset and Belonging Group



For "Mindset and Belonging" groups, the gap between share of disadvantaged and advantaged students completing 12+ credits in 1st term reduced by half

Control Group



Intervention will be used for all 7,800 incoming freshmen this year

The Impact of a Full Course Load

Mounting Evidence Shows Full-Time Enrollment Boosts Success

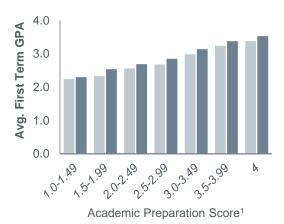
Better Results Across Spectrum of Academic Preparedness

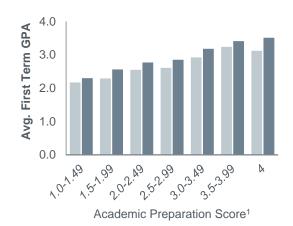
First-Time Freshmen at U of Hawaii. 2009-2011



...Even When Isolating Pell Recipients

First-Time Freshman Pell Grant Recipients at U of Hawaii. 2009-2011





<15 Credits Taken

≥ 15 Credits Taken

1) Composite of SAT, ACT, HS GPA, and HS Class Rank

Encouraging Credit Accumulation



Policies and Messaging Incentivize Larger Student Course Loads





Full-time students pay for 15 credits. rather than 12

Full-Time Definition



Sophomore standing now defined as 30 credits, rather than 24 credits

Class Standing



Aid Incentives

State offers greater financial aid benefits for taking 15 credits rather than 12 credits.

Credit **Incentives**



\$500 incentive scholarship for students completing 30 annual credits increased mean number of credits taken by 11 percent



Marketing Campaign

"Fifteen to Finish" campaign promotes financial and academic benefits of taking full credit load

UTSA

Withdrawal **Deadlines**

Course withdrawal deadline moved from week 14 to week 9 to discourage drops motivated by final grades

Extending Registration's Reach



Multi-Term Commitment Enables and Encourages Long-Term Planning

Immediate Benefits to Students

Students able to plan further ahead to accommodate complex schedules, requirements, and plans



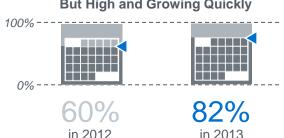
Fall to spring retention increased 3% in first year

Departments able to forecast section demand

Academic units realize cost-efficiency gains. better aligning resources and instructor workload with enrollment

Broader Impact on Campus

Student Participation is Voluntary, **But High and Growing Quickly**



Technical Worries Unwarranted

"I'm kind of surprised it's not more widespread, because it's not technologically a challenge. I think it makes a lot of sense if you can do it. It's good resource planning."

> - Michael V. Reilly, Executive Director American Association of College Registrars

Source: Allie Grasgreen, "Registering Toward Completion," Inside Higher Ed, April 11, 2014; "Cleveland State University - Multi-Term Registration; Course Scheduling for Student Success," AASCU Innovations Exchange; EAB interviews and analysis.

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Learning from Early Adopters

Student Adoption and Sequential Course Management Key to Success

Increasing Student Adoption



Default Registration Option

Show all available terms on main registration page to "nudge" students toward participation, and alter language to reinforce year-long planning



Targeted Email Outreach

Send monthly awareness emails throughout summer and fall to students who haven't registered for additional terms

Improving Predictive Capacity



Post-Requisite Audits

Audit prerequisite course progress at the add/drop deadline, withdrawal deadline, and end of term to reduce artificial post-requisite demand



Course Waitlists

Use waitlists to dynamically adjust section enrollment, justify additional sections, and forecast need for additional adjuncts

Giving Up Too Easily

When Students Drop or Withdraw for the Wrong Reason

Students have many reasons for choosing to withdraw from a course or the institution

Some are "good" reasons

"I'm avoiding a failing grade"

"I'm overwhelmed and worried about my grades in other courses"

Many are "bad" reasons

"I'm not earning the grade I want"

"I dislike the instructor"

"I don't want to get up this early"

"I've lost interest in the material"

Sub-optimal advising practices let too many students make "bad" choices

Structure

Few institutions require an advising meeting prior to withdrawing

Quality

Some advisors simply rubber stamp all withdraw requests

Capacity

Even the best advisors cannot always dedicate adequate time to assessing all requests

Absent a meaningful conversation, many students do not understand the long-term implications of their withdrawal decision

Are You Absolutely Sure?



Penn State's Online Withdrawal Process Highlights Implications

Each Stage of Module Provides New Information and Opportunity To Back Out

Broad Implications

enrollment status

Lists impact on aid, time-to-degree, standing, grades, benefits, and
 For course drop, student inputs major, reason for drop, anticipated grade

 For withdrawal, student selects from list of 22 academic and non-academic reasons

Initial Student

Decision

Personalized Advice

 Based on info provided in previous step and student degree audit

Final Student Decision

 Requires student password to confirm final decision

Re-lists implications

Students dissuaded from course drop



Incorporates Advising Into Formerly Transactional Process



Scales Intervention to Avoid Overburdening Advisors



Provides Data to Target Future Institutional Intervention

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Source: EAB interviews and analysis.

4

Summary – Sustaining Academic Momentum



- Students from traditionally "at-risk" populations are often more likely to leave college due to a lack of confidence or connection to the institution. By targeting these students during orientation with messages that help them envision success and engagement, institutions can begin to prevent early attrition.
- While most institutions cannot (and should not) require every student to take a full course load, every institution should ensure that students are advised to enroll in as many courses as they are able to prevent delays in graduation or loss of financial aid.
- Allowing students to register for several terms at a time strengthens their commitment to the university, helps them to plan their program further in advance, and encourages the institution to accommodate the long-term interests of its students.
- Consequential decisions like dropping a course or withdrawing from the university should not be enabled through simple registrar transactions; structure withdrawal processes in a way that informs students of potential negative consequences and allows them multiple opportunities to reconsider.



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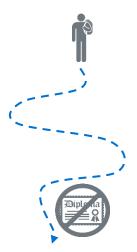
Student Safety Net

Falling Through the Cracks

When Planning Tools and Guardrails Fail



The Wanderer



...meanders though programs with no plan

Student accumulates credits without satisfying major requirements or a clear plan for completion

The Stop Out

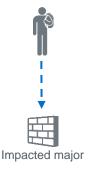




...is waylaid by other life commitments

Personal and economic needs force student to choose other priorities over degree completion

The Locked Out





...isn't accepted into first-choice major

Student drops out or transfers to another institution after declined admission into competitive program

The Super Senior



...goes past a degree without graduating

Student continues to accumulate credits without completing a graduation application

A Second Chance at a Full Course Load



Withdrawal Redirect Courses Keep Students on Track

THE UNIVERSITY OF AI ABAMA Advisors notify DFW students of "fail safe" option **Traditional 15-Week Course** Add/Drop Deadline **Proactive Online 10-Week Course** registration not allowed 3-Week Course Prioritization: High demand prerequisites, general Registration education courses, and introductory pre-med courses Period



Students avoid losing financial aid eligibility



Doesn't use valuable classroom space



Can be repurposed as "catch up" module 4

Alternate Majors Make Use of Earned Credits



The University of Missouri's Bachelor of Health Science





Not Missing a Beat

A Pre-Nursing student who switches to the Bachelor of Health Science program at the end of Year Two will have already completed 21 credits toward the new major plus several general education courses

Bachelor of Health Science Requirements

Bachelor of Science in **Nursing Requirements**

New courses

- Public Health Principles and **Practices**
 - Healthcare in the **United States**

Overlapping requirements

- Microbiology
- Human Anatomy
- Human Development
- Human Physiology

No longer applicable

- Nursing as a Profession
- Psychosocial Issues in Nursina



Surprisingly High-Demand for BHS Program

Anticipated Enrollment (launched in 2006)



1.182

Actual Enrollment (as of Spring 2014)

Overcoming the "Plan B" Stigma



Creating an Alternative That Is Truly Attractive

Academic Rigor and Respect

Perceived Prestige and Rigor

Missouri's BHS is built around a course of study that students view as legitimate and worthy

Top-Notch Faculty

Recruit talented instructors to dispel student fears of settling for a second-class education

Expanded Horizons

Introduce students to new ideas and outside of the narrow focus of their original major

Clear Connection to Careers

Industry Endorsement

Consult employers to develop a curriculum that best prepares graduates for industry needs

Robust Career Services

Build confidence in post-graduate employment through internships and placement programs

Potential for Future Study

Curriculum prepares students to continue their studies in an accelerated Nursing Program

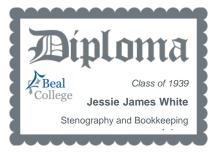




Finding, Recruiting, and Completing "Near Graduates"



"99 Year-Old Woman Graduates 75 Years Late After \$5 Transcript Fee is Paid"





Proactive and Reactive Approaches to Near-Graduate Completion





Degree

Completer

Graduation Audits



- CSU Long Beach "Destination Graduation" program proactively audits senior transcripts
- Advisors negotiate substitutions, waivers with departments

Customized **Degrees**



- Multidisciplinary Studies degree approved in 2011 helps military, transfer, and undecided upperclassmen complete on time
- Honors students surprisingly enrolling to gain flexibility





Streamlined Re-Admission



- "Back to Bama" program targets stop-outs gone for 2+ terms
- First course offered free, plus simple scholarship form
- 600+ awards since 2008, average amount of \$1,000

Non-Traditional Outreach



- "Graduation Project" contracts with credit agency to obtain addresses
- Alternative methods: social media messaging (Portland State U), DMV (U of Alabama)

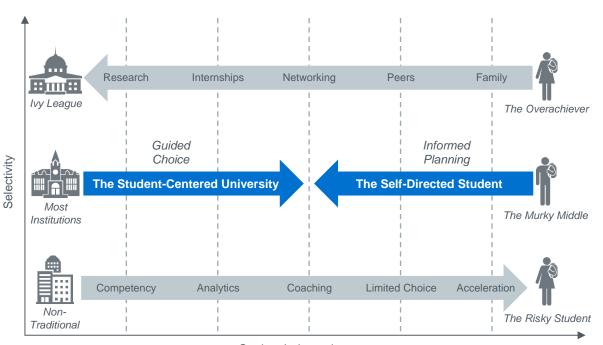




- No amount of investment and planning will prevent every student failure or mistake. However, the consequences of failure are often excessively or unintentionally high at many institutions. A "safety net" approach to common difficulties can help to keep salvageable students on track for graduation.
- By creating and advertising accelerated course modules to students who drop or withdraw from a course early in the term, institutions can encourage students who might otherwise have delayed their progress or lost financial aid eligibility to maintain a full course load.
- Students who do not gain admittance into competitive majors or who remain undecided through junior year are often well-served by "macro majors," which cluster around particular disciplines but have more flexible degree requirements.
- Proactively audit near-graduation student transcripts and intervene with off-track students in time for "expected last term" registration. Many institutions find that relatively minor interventions (one course substitution, a resolved hold, etc) can prevent senior year stop outs and push near-graduates to completion on time.

Meeting Students Halfway

Navigating Between Extremes in Student Success



Student Independence