

# Student Success Initiatives

Warwick Arden, Provost and Executive Vice Chancellor

Louis Hunt, University Registrar and Vice Provost, Enrollment Management and Services

Mike Mullen, Vice Chancellor and Dean, Division of Student and Academic Affairs

Tom Miller, Senior Vice Provost, Academic Outreach and Entrepreneurship

# Goal 1: **Success of Our Students**

## Key Accomplishments 2011-13

- 2020 Enrollment Plan
- Enrollment Wizard and Advising Dashboard
- Change of Degree Application
- DASA Merger
- Professional Advisors/Intrusive Advising Model
- Living & Learning Villages and Other High Impact Activities
- New DE Tuition Model
- Large Course Redesign



# What is Student Success?

- Objective Measures
  - 1 & 2 year retention rates
  - 4 year and 6 year graduation rates
  - Masters (4 year) and doctoral (6 year) completion rates
- Student Outcomes and Learning Assessments
  - Example: Collegiate Learning Assessment (CLA)
- Post-graduation Outcomes
  - Job placement and salary
  - Participation in graduate education

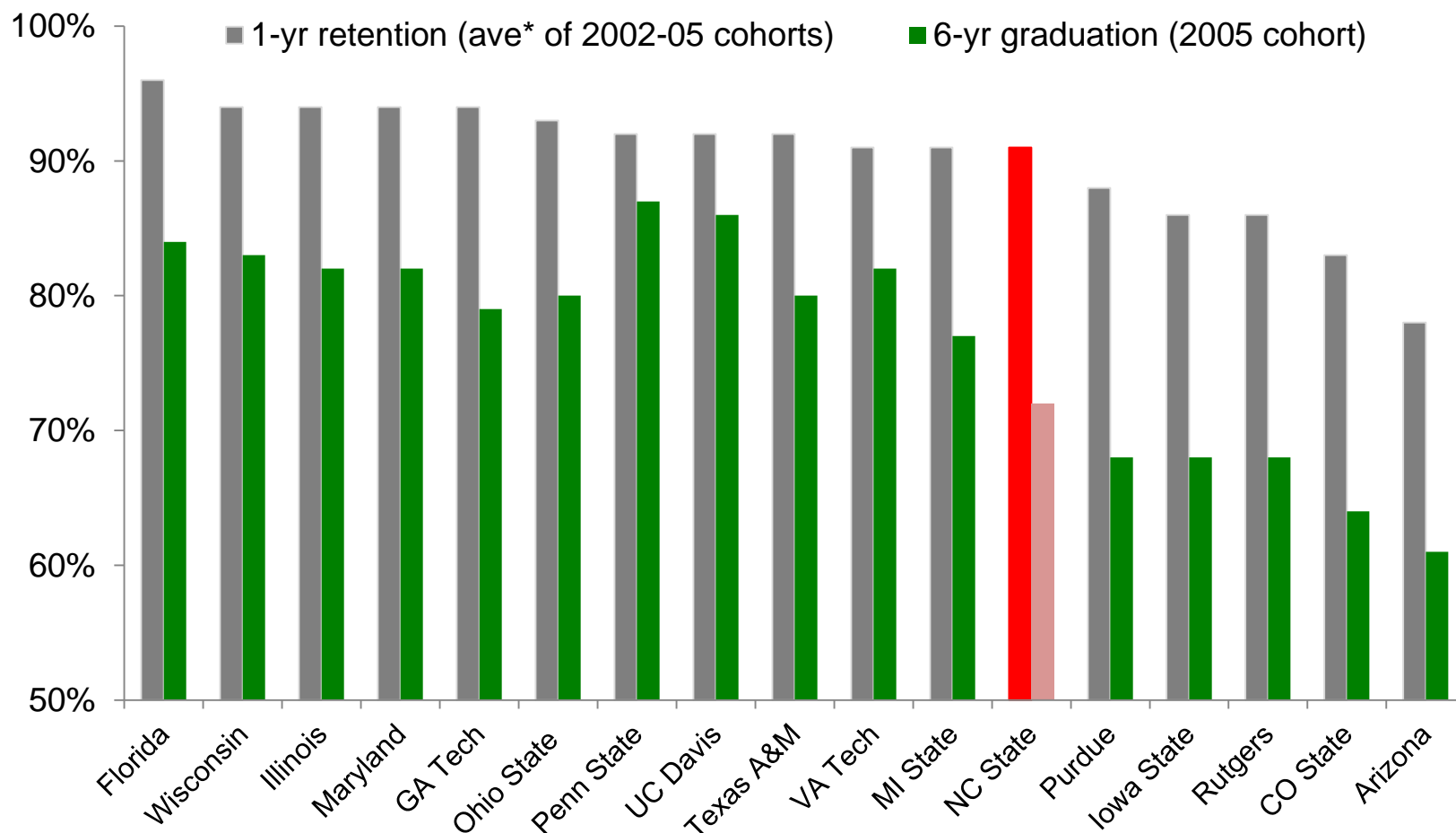
# Retention and Graduation Rates

NC STATE UNIVERSITY

Year	First Year Retention	Six Year Graduation
2013	92.6%* (2011 cohort)	74.9%* (2007 cohort)
2020 or sooner	94% (2019 cohort)	80% (2014 cohort)

# Retention and Graduation Rates

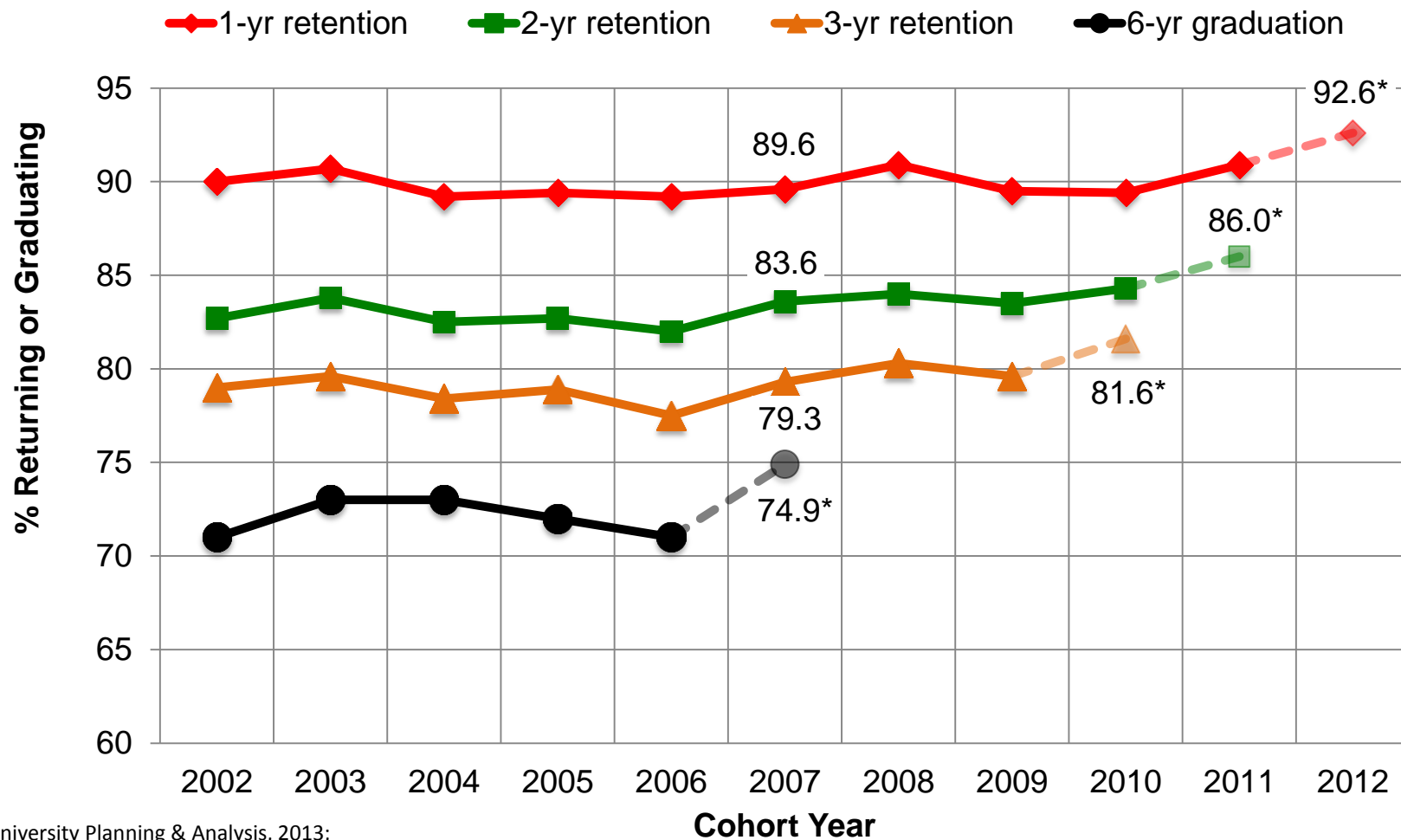
NC STATE UNIVERSITY AND PEER INSTITUTIONS FOR 2011



US News & World Reports Best Colleges, 2013 Edition; see <http://upa.ncsu.edu/ir/rate/retention-grad-rates-comparison>. \*Percentage of first-year freshmen who returned to the same college or university the following fall, averaged over the first-year classes entering between 2002 and 2005.

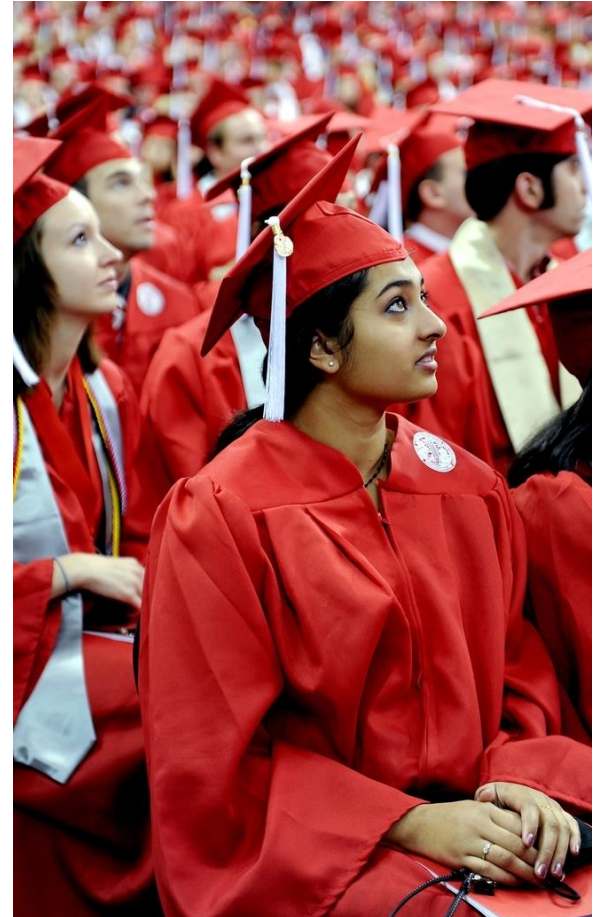
# Retention and Graduation Rates

1, 2 AND 3YR RETENTION AND 6YR GRADUATION RATES BY COHORT



# Time to Act

- Our students are excellent and can succeed here or anywhere.
- The student is at the center of what we do.
- Our mission is to promote and enhance student success.







SUPPORTING STUDENT SUCCESS

# ENROLLMENT



# The Applicants

NC State received more than 21,000 undergraduate applications for the fall semester. Applications were received from every county in North Carolina, all 50 states and 94 countries

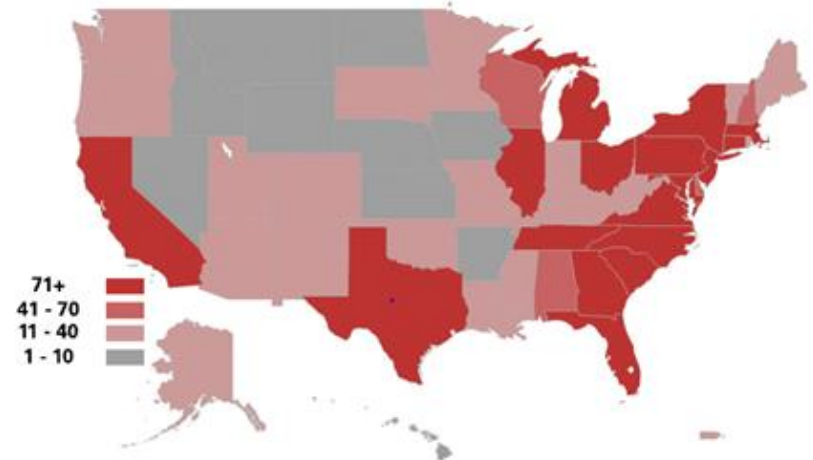
## Top 5 Countries Outside the U.S.

<b>546</b>	People's Republic of China
<b>115</b>	India
<b>65</b>	Saudi Arabia
<b>57</b>	South Korea
<b>46</b>	Mexico

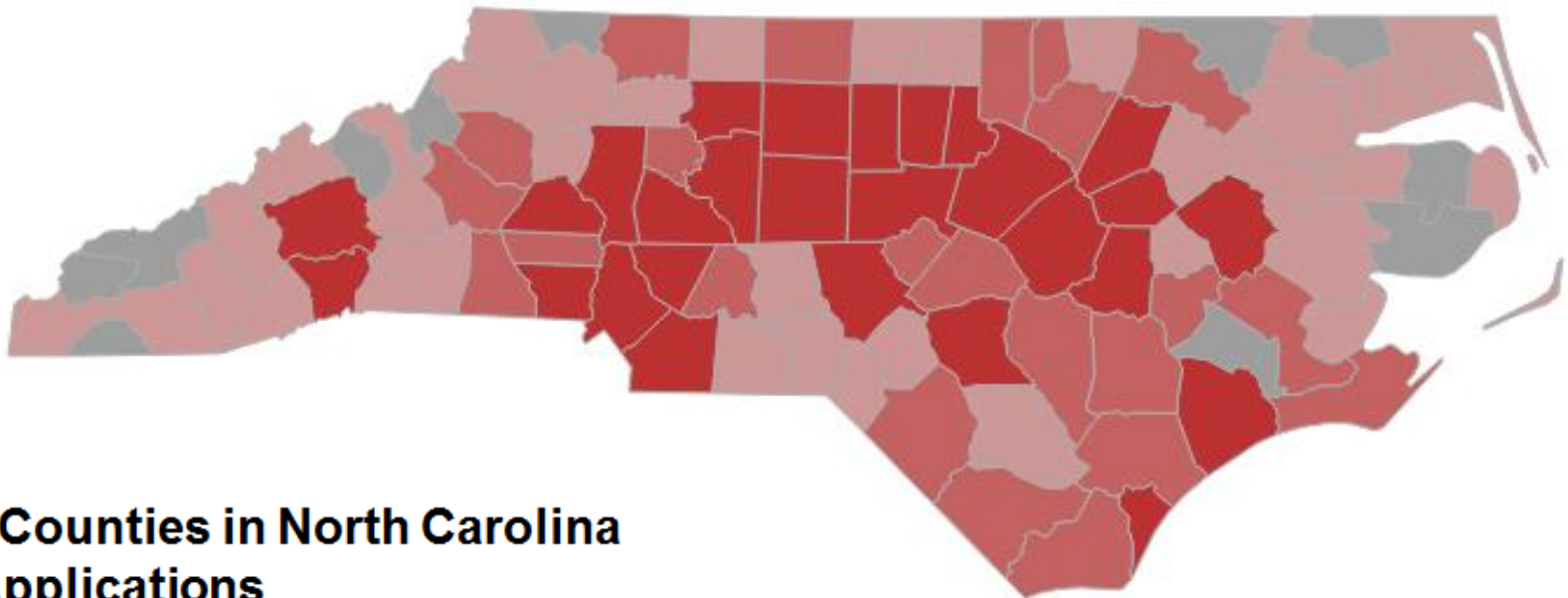


## Top 10 States Outside of North Carolina by Applications

Virginia	<b>858</b>	Florida	<b>431</b>
Maryland	<b>689</b>	South Carolina	<b>315</b>
New Jersey	<b>531</b>	Georgia	<b>254</b>
New York	<b>450</b>	Massachusetts	<b>228</b>
Pennsylvania	<b>444</b>	Connecticut	<b>177</b>



# The Applicants



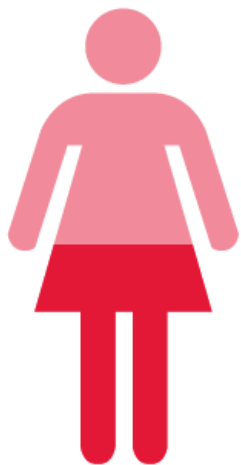
## Top Counties in North Carolina by Applications

Wake	3,201	Durham	376
Mecklenburg	1,591	Cumberland	368
Guilford	959	Cabarrus	341
Forsyth	557	Orange	294
Union	517		
New Hanover	414		



# Fall 2013 Freshman Class

4,170 ENROLLED STUDENTS



**46%**  
Of Incoming  
Enrolled Students  
are Female



**54%**  
Of Incoming  
Enrolled Students  
are Male

## Top 10 Majors of Incoming Enrolled Students

Engineering	1,199	Political Science	74
First Year College	812	Fashion & Textile	69
Management	362	Management	
Biological Sciences	240	Communication	60
Animal Science	143	Zoology	57
Psychology	99		

**159**

International  
students

**600**

Children of  
Alumni

**211**

Valedictorians  
and Salutatorians  
among Entering  
Students

**4.43**

Weighted  
High School  
GPA

**46**

Perfect Score  
on the SAT  
(Math)

**20**

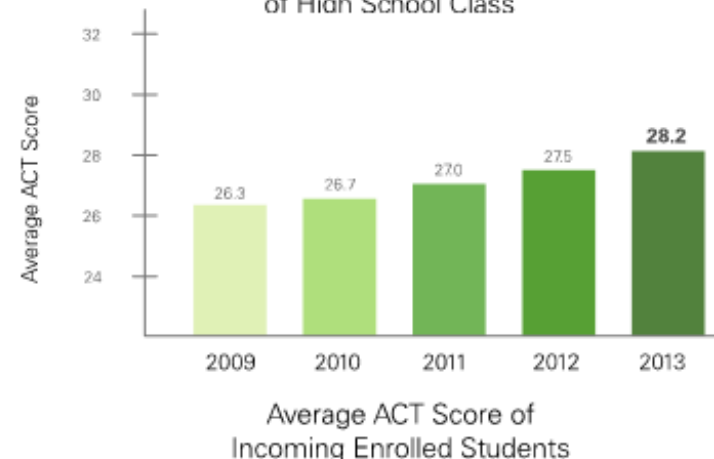
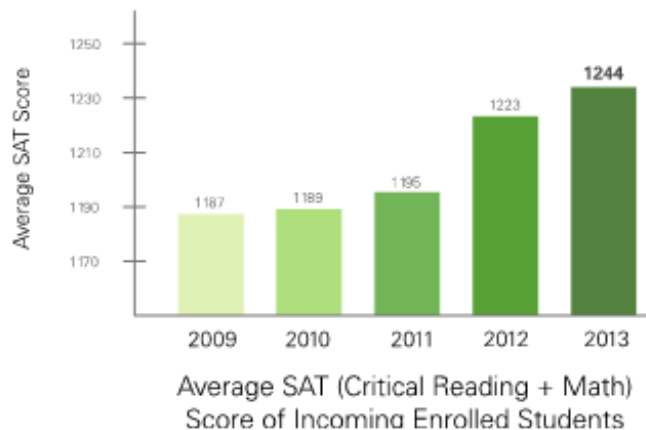
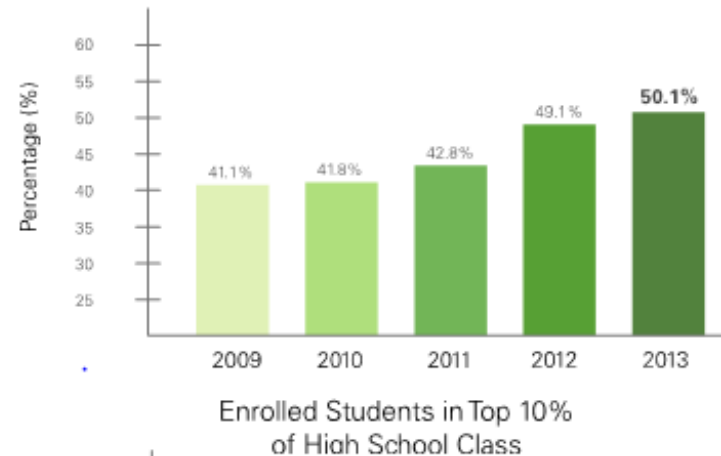
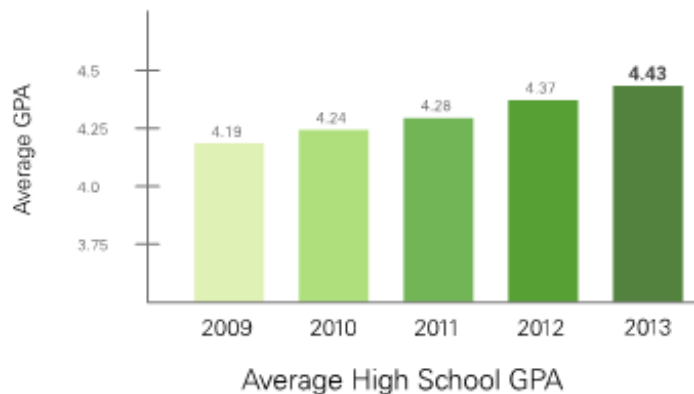
Perfect Score on  
the SAT  
(Critical Reading)

**3**

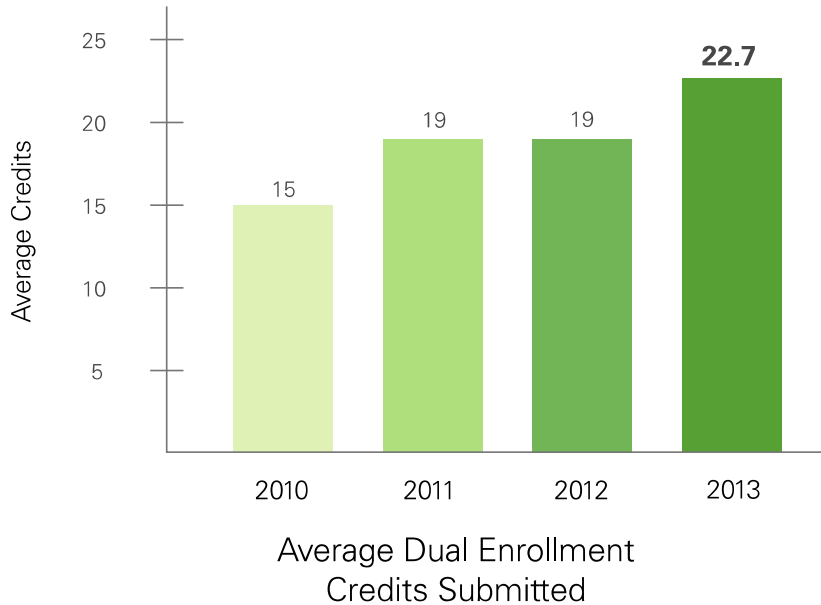
Perfect Score  
on ACT

# Academic Achievement of Enrolling Students

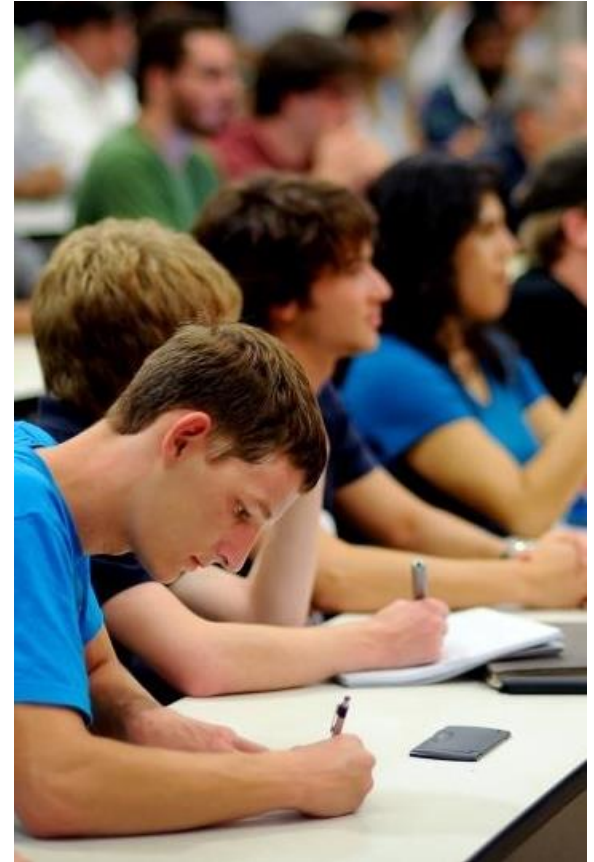
The 2013 freshman class is the highest achieving class in our history, with an overwhelming majority of incoming students ranked in the top 20% of their class.



# Dual Enrollment and AP Exams

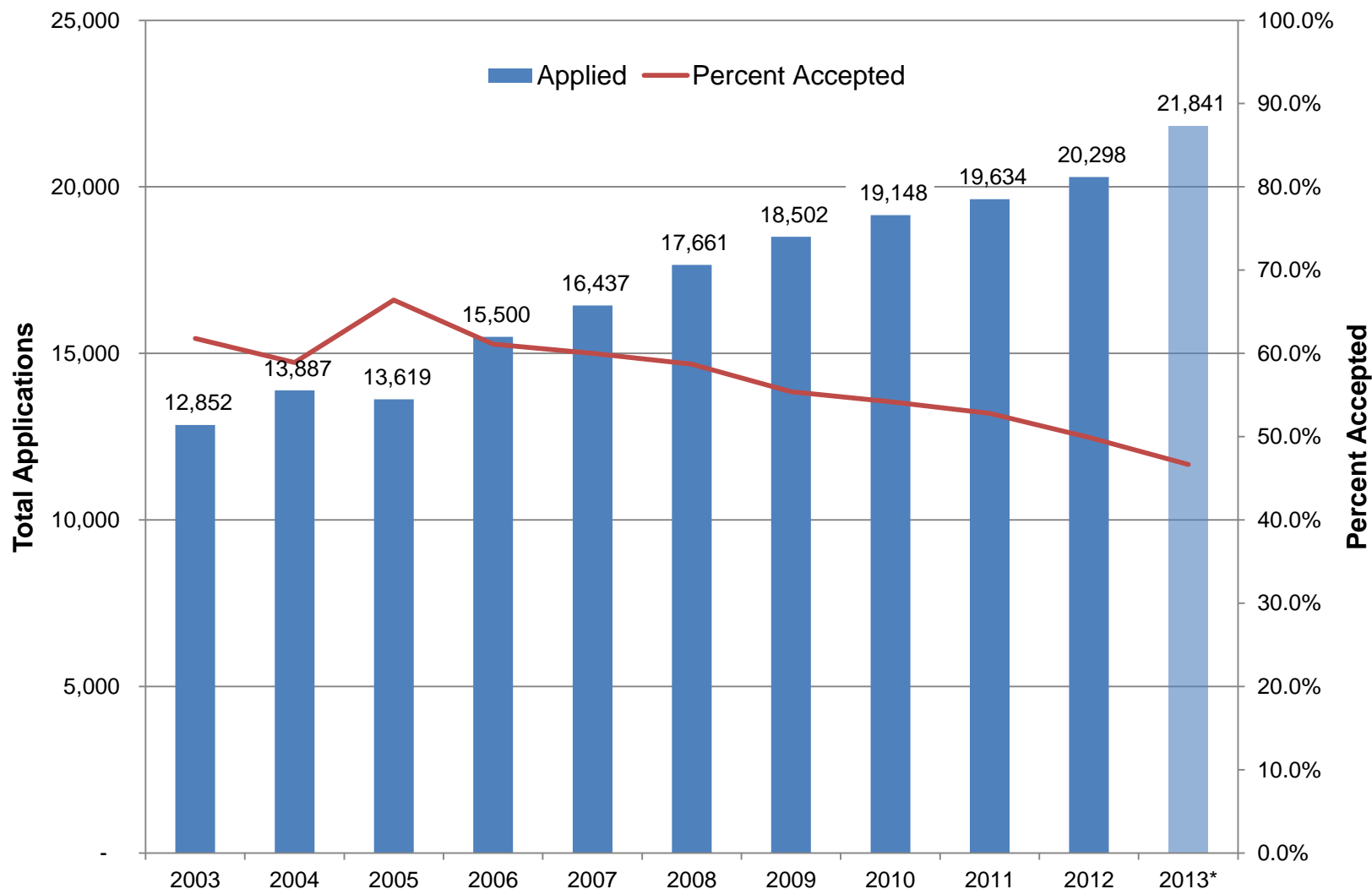


- 605 incoming freshmen have college credit
- 14,350 AP scores submitted
- 72% (3,050) of first year students that intend to enroll submitted AP scores with an average of 4.7 AP exams per student.
- 2,971 AP scores of 5 were submitted

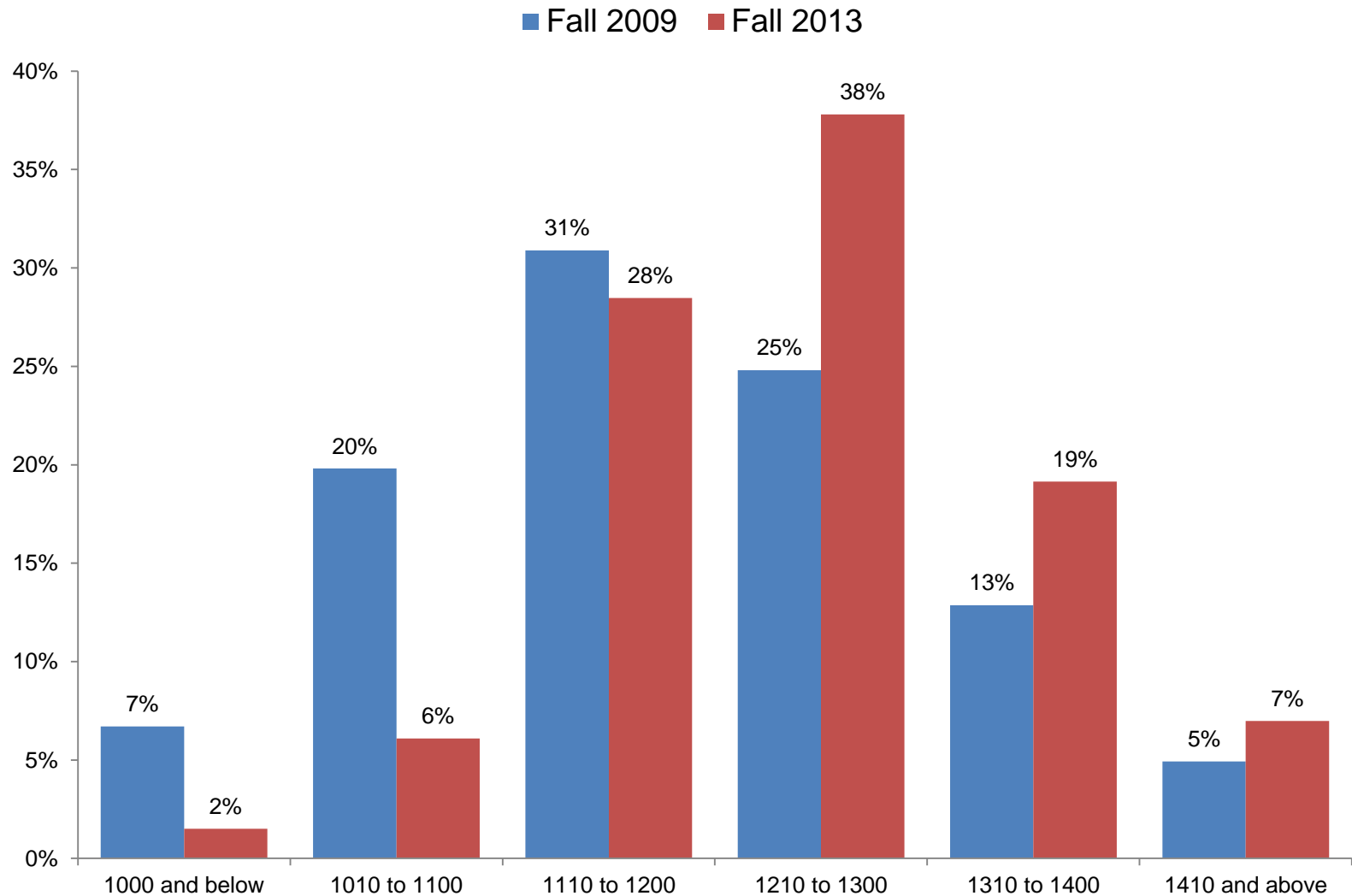




# New Freshmen Applications



# Five Year Change in SAT Profile




# New Student Advising Dashboard

Mr Wuf
ID: 000000001

student center
general info
academics
**dashboard**

### Personal Information



**Emplid:** 000000001
**Name:** Mr Wuf

[View Degree Audit](#)
[View Unofficial Transcript](#)
[View Enrollment History](#)
[Release Advising Hold](#)

Institution - NC State University  
Career - Undergraduate  
Program - Physical & Math Sciences  
Major - Mathematics-BS

\*Select Major
UGRD - Mathematics-BS (17MATHBS)
change

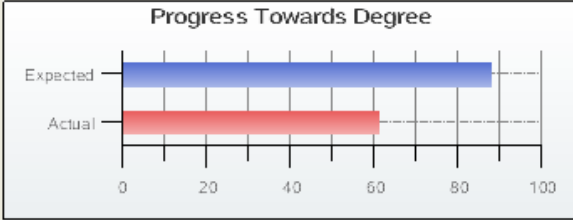
### Major Summary

**Program:** PAMS Physical & Math Sciences  
**Major:** 17MATHBS Mathematics-BS  
**Plan GPA:** 2.621

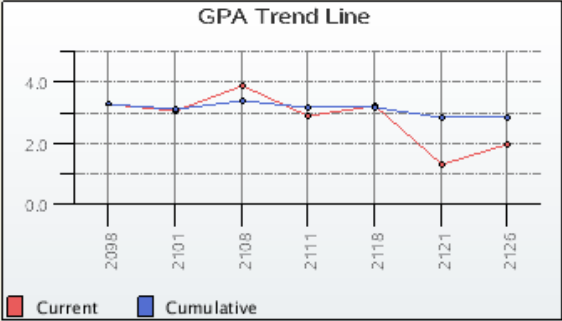
**Class Rank**

Mathematics-BS	7 of 15
Physical & Math Sciences	22 of 136
Freshman	564 of 3767

#### Progress Towards Degree


[View Progress Towards Degree Details](#)

#### GPA Trend Line



# New Student Advising Dashboard

Mr Wuf

ID: 000000001


student center

general info

academics

dashboard

▼ Personal Information



Emplid: 000000001

Institution - NC State University

\*Select Major

▼ Major Summary

Program: PAM

Major: 17MATHI

Plan GP

Expected

Actual

0

View Pro

▼ Advising Indicators

Academic Indicators

Status	Indicator	Value	
✗	Progress Reports	1	<a href="#">View</a>
✓	Late Class Drops	0	--
✗	Repeated Courses	6	<a href="#">View</a>
✓	Good Standing		--
✓	Enrollment Non Degree	0	--

Other Indicators

Status	Indicator	Value	
✓	University Scholars (active)		--

Critical Path ?

Status	Subject	Catalog	Term	Grade
✓	ENG	101	2101	B+
✓	MA	141	2098	CR
✗	MA	241	2098	U
✓	MA	241	2101	B
✗	MA	242	2108	U
✓	MA	242	2111	B
✗	MA	225		
✓	MA	341	2111	A-

▼ Advising Comments

☐ Restrict Comments To Current Plan

Add Comment

Date	Submitted By	Plan	Email	Comment	Edit	Delete
09/27/2012	Michelle Johnson	17MATHBS	Yes	Do better!		
09/26/2012	Michelle Johnson	17MATHBS	Yes	Help		
09/18/2012	Michelle Johnson	17MATHBS		Third comment added to Mr Wuf	Edit	Delete
09/18/2012	Michelle Johnson	17MATHBS	Yes	Test email functionality		
09/18/2012	Michelle Johnson	17MATHBS		Another try to talk to Mr Wuf	Edit	Delete

# New Enrollment Wizard

My Schedule My Shopping Cart My Events Add To Cart

Enrolled Wait Listed

**2012 Fall Term**

Class	Description	Grading	Units	Status	Drop	Swap	Edit																	
BCH 351	General Biochemistry	Graded	4.00	Enrolled																				
<table border="1"> <thead> <tr> <th>Section Type</th> <th>Days</th> <th>Time</th> <th>Location</th> <th>Instructor</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>Lecture</td> <td>Mon/Wed/Fri</td> <td>09:10 AM - 10:00 AM</td> <td>02215 Williams Hall</td> <td>Charles Hardin</td> </tr> <tr> <td>301</td> <td>Problem Session</td> <td>Mon</td> <td>12:25 PM - 01:15 PM</td> <td>00128A Polk Hall</td> <td>Charles Hardin</td> </tr> </tbody> </table>								Section Type	Days	Time	Location	Instructor	001	Lecture	Mon/Wed/Fri	09:10 AM - 10:00 AM	02215 Williams Hall	Charles Hardin	301	Problem Session	Mon	12:25 PM - 01:15 PM	00128A Polk Hall	Charles Hardin
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301	Problem Session	Mon	12:25 PM - 01:15 PM	00128A Polk Hall	Charles Hardin																			
Show On My Calendar »																								
PE 251	Target Archery	Graded	1.00	Enrolled																				
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012	Laboratory	Tue/Thu	09:10 AM - 10:00 AM	CT11 Carmichael Gym	Paul Powers																			
Show On My Calendar »																								
PEC 478	Exercise Physiology and Sports Science	Graded	3.00	Enrolled																				
<table border="1"> <thead> <tr> <th>Section Type</th> <th>Days</th> <th>Time</th> <th>Location</th> <th>Instructor</th> </tr> </thead> <tbody> <tr> <td>006</td> <td>Lecture</td> <td>Mon/Wed</td> <td>01:30 PM - 02:45 PM</td> <td>02014 Carmichael Gym</td> <td>William Deng</td> </tr> </tbody> </table>								Section Type	Days	Time	Location	Instructor	006	Lecture	Mon/Wed	01:30 PM - 02:45 PM	02014 Carmichael Gym	William Deng						
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006	Lecture	Mon/Wed	01:30 PM - 02:45 PM	02014 Carmichael Gym	William Deng																			
Show On My Calendar »																								
PSY 200	Introduction to Psychology	Graded	3.00	Enrolled																				
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Show On My Calendar »																								

My Calendar

My Schedule My Shopping Cart My Events

	Mon	Tue	Wed	Thu	Fri
all-day	PEC 478	PEC 478	PEC 478	PEC 478	PEC 478
8am					
9am	9:10 - 10:00 BCH 351	9:10 - 10:00 PE 251	9:10 - 10:00 BCH 351	9:10 - 10:00 PE 251	9:10 - 10:00 BCH 351
10am		10:15 - 11:30 SOC 381		10:15 - 11:30 SOC 381	10:15 - 11:05 ST 311
11am					
12pm	12:25 - 1:15 BCH 351				
1pm	1:30 - 2:45 PEC 478	1:30 - 3:20 CH 102	1:30 - 2:45 PEC 478		
2pm					
3pm		3:00 - 4:15 PSY 200		3:00 - 4:15 PSY 200	
4pm					
5pm	4:30 - 7:00 Work		4:30 - 7:00 Work		4:30 - 7:00 Work
6pm					
7pm					



# New Internal Transfer Process

## CHANGE OF DEGREE APPLICATION (CODA)

- Centralized site and online application to change majors
- Convenient interface and consistent procedures across campus
- Students see if they meet transfer requirements and how much time will remain toward their degree if they change majors

[ncsu.edu/coda](https://ncsu.edu/coda)

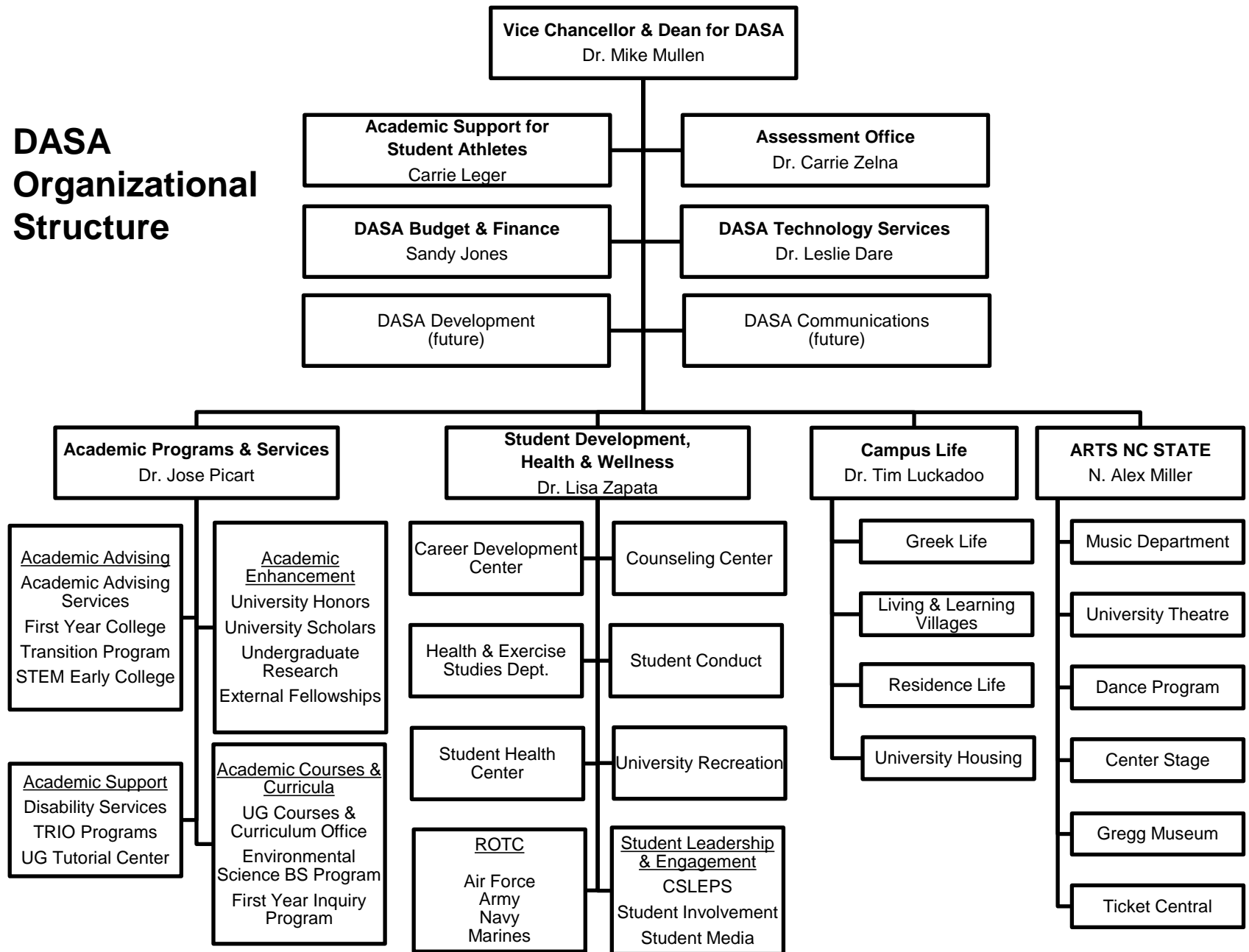




SUPPORTING STUDENT SUCCESS

# DIVISION OF ACADEMIC AND STUDENT AFFAIRS

# DASA Organizational Structure



# High Impact Education Practices

## Living and Learning Villages

- 3,303 first-year students in Residence Halls, 43% are in LLV
- 2,102 students in Villages, 67% are first-year students
- 13 Villages as of Fall 2013
  - New: Wood Wellness, Engineering, EcoVillage
  - Fall 2014: Entrepreneurship Village
- Village residents have 5-10% higher GPAs and 4% higher graduation rates.





# High Impact Education Practices

## Undergraduate Research Office

- 245 students, 173 research projects
- \$202K – 240% of base allocations

## First Year Inquiry

- 39 FYI courses last year
- Linked to Engineering Village, Women of Welch Village and Scholar's Village
- Major part of the **TH!NK** Program.





NC STATE UNIVERSITY

# TH!NK

Higher-order Skills  
in **Critical** and **Creative** Thinking



[QEP Home](#)

[The QEP Team](#)

[Division of Academic & Student Affairs](#)

## The TH!NK Plan: Higher-Order Skills in Critical & Creative Thinking

- What is a QEP?
- How did NC State arrive at its plan?
- What do we mean by critical and creative thinking?
- Why is critical and creative thinking important to student success?
- What is included in the draft plan?
- What will the university do across the five years of the QEP?
- How can you comment on the QEP during its development?
- How can you be involved in the work of the QEP?

### QEP DOCUMENTS

[QEP At A Glance](#)

[Full QEP Draft \(21 Aug 2013\)](#)

[Project Timelines](#)

### APPLY NOW: QEP POSITIONS

[Director of QEP](#)

[QEP Faculty Fellows](#)

[Testing Scorers](#)

### RESOURCES

[University Accreditation](#)

[University Strategic Plan](#)

### QEP EVENTS

September 2013

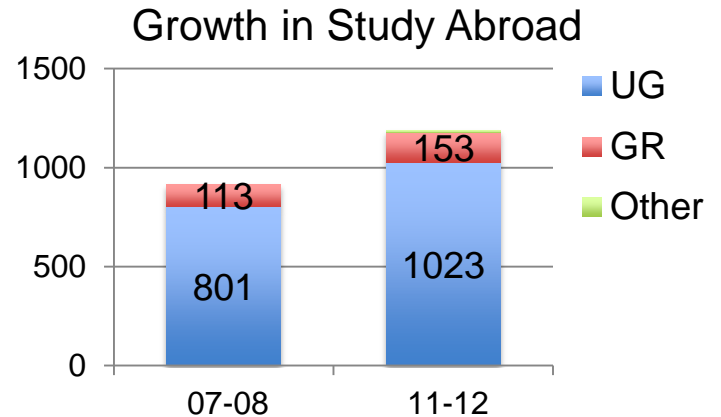
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

[qep.ncsu.edu](http://qep.ncsu.edu)

# High Impact Education Practices

## Study Abroad

- 2011-12: 1,023 UG students in 60 countries, up 12% over 2010-11
- Top 5 countries: Czech Republic, China, Spain, UK, Italy



## Alternative Service Break

- 22 trips, 14 countries with over 8,000 service learning hours
- Global health, education, housing, hunger, water quality, environment, civil rights



# Student Support

## Academic Advising Services in FYC

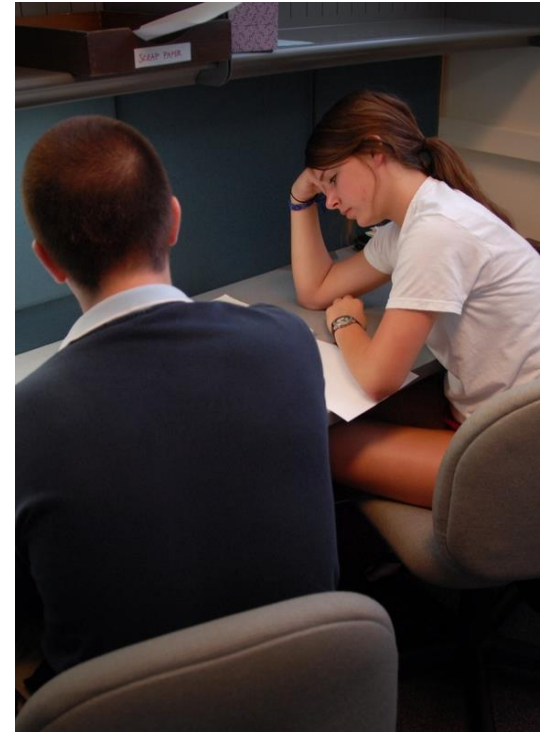
- Established walk-in advising, served nearly 800 students
- Adding satellite walk-in at Park Shops
- Virtual advising, evenings and weekends

## Undergraduate Tutoring Center

- Expanded tutoring pool
- Supplemental instruction for PY courses
- Academic coaches for CH 101
- Graduate Writing Center in Park Shops

## Office of Fellowship Advising

- 30 applicants for Fulbright Awards this fall, up from 16 last year.





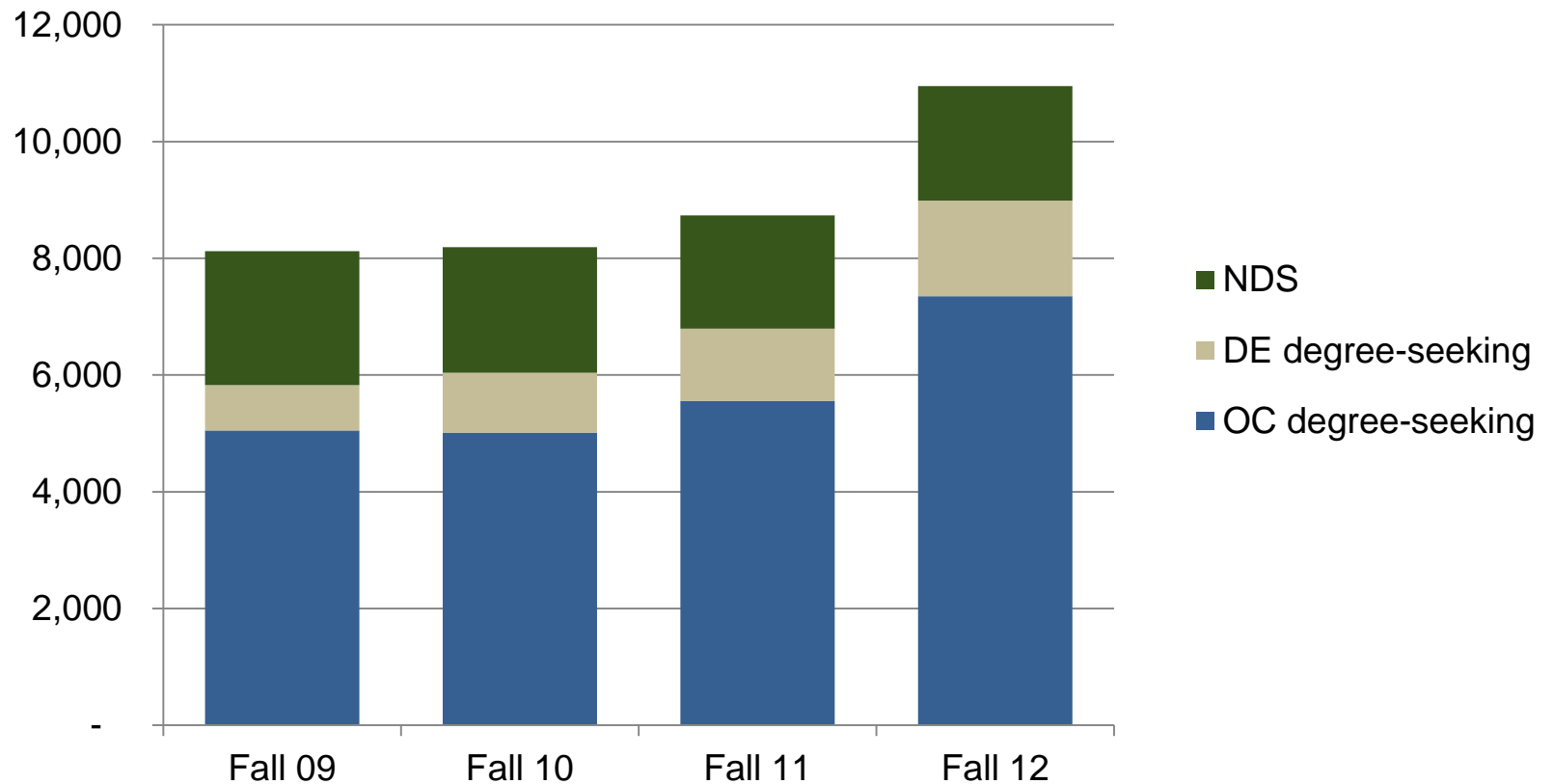
SUPPORTING STUDENT SUCCESS

# DISTANCE EDUCATION

# Blurring the Lines

REMOVING THE TUITION DIFFERENTIAL

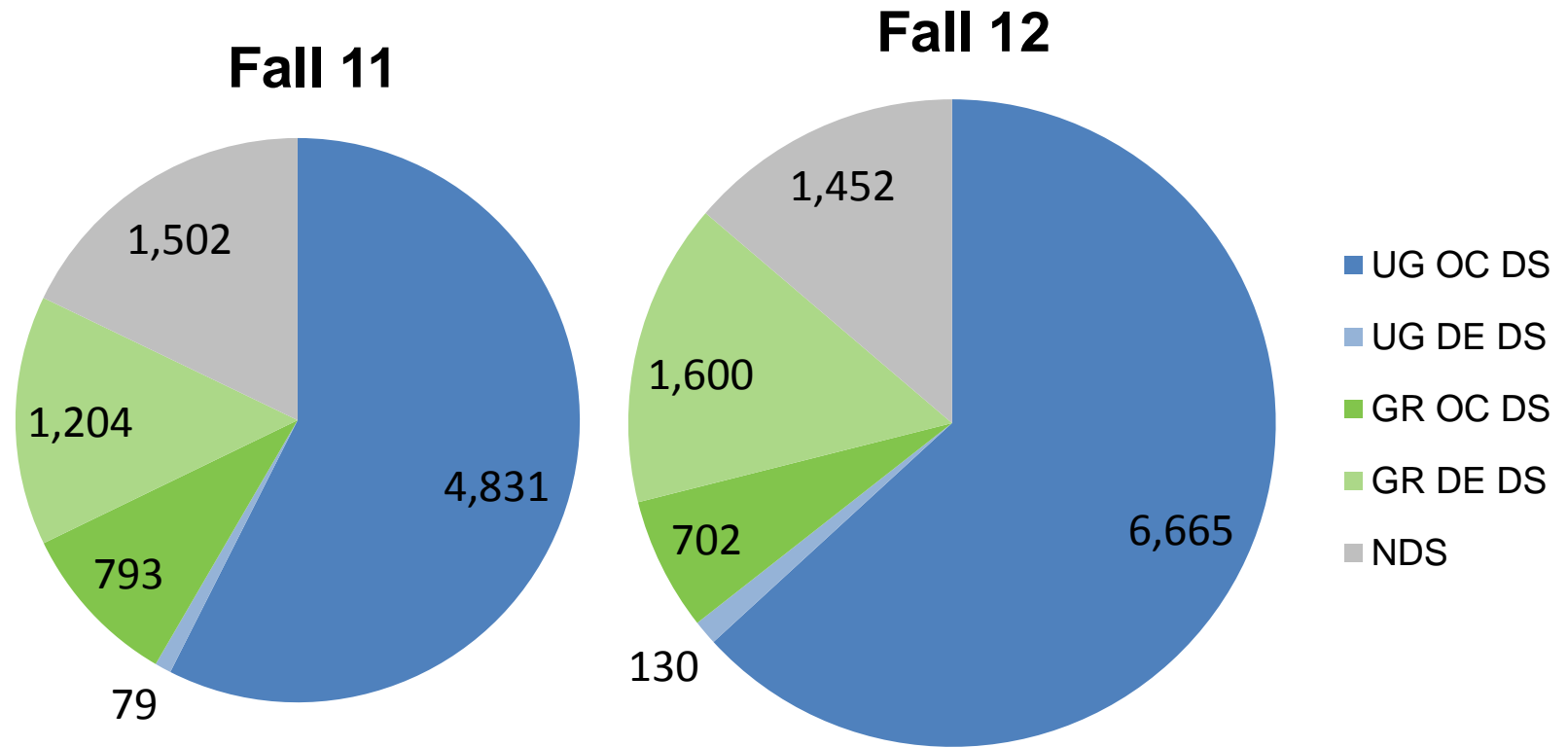
## NC State students taking one or more courses via DE





# Blurring the Lines

CHANGE IN DE ENROLLMENT PATTERNS FALL 11 / FALL 12



# Blurring the Lines

CHANGE IN DE ENROLLMENT PATTERNS FALL 11 / FALL 12

↑**44%**

Full time degree-seeking undergrads

↑**2%**

Part time degree-seeking undergrads

↑**38%**

Full time degree-seeking grad students

↓**43%**

Part time degree-seeking grad students

↑**0.4%**

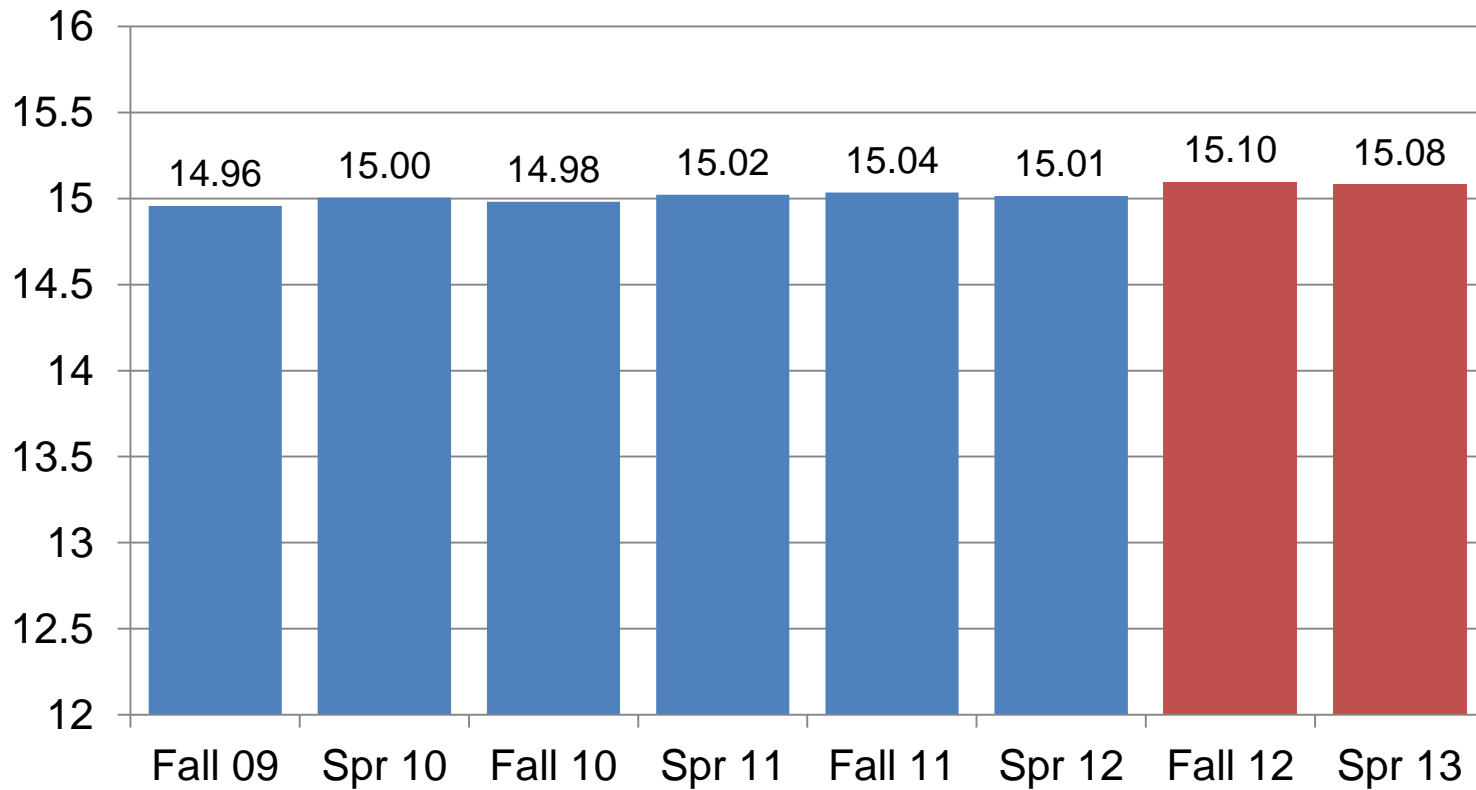
SCH per full time degree-seeking undergrad

↑**1.1%**

SCH per full time degree-seeking grad student

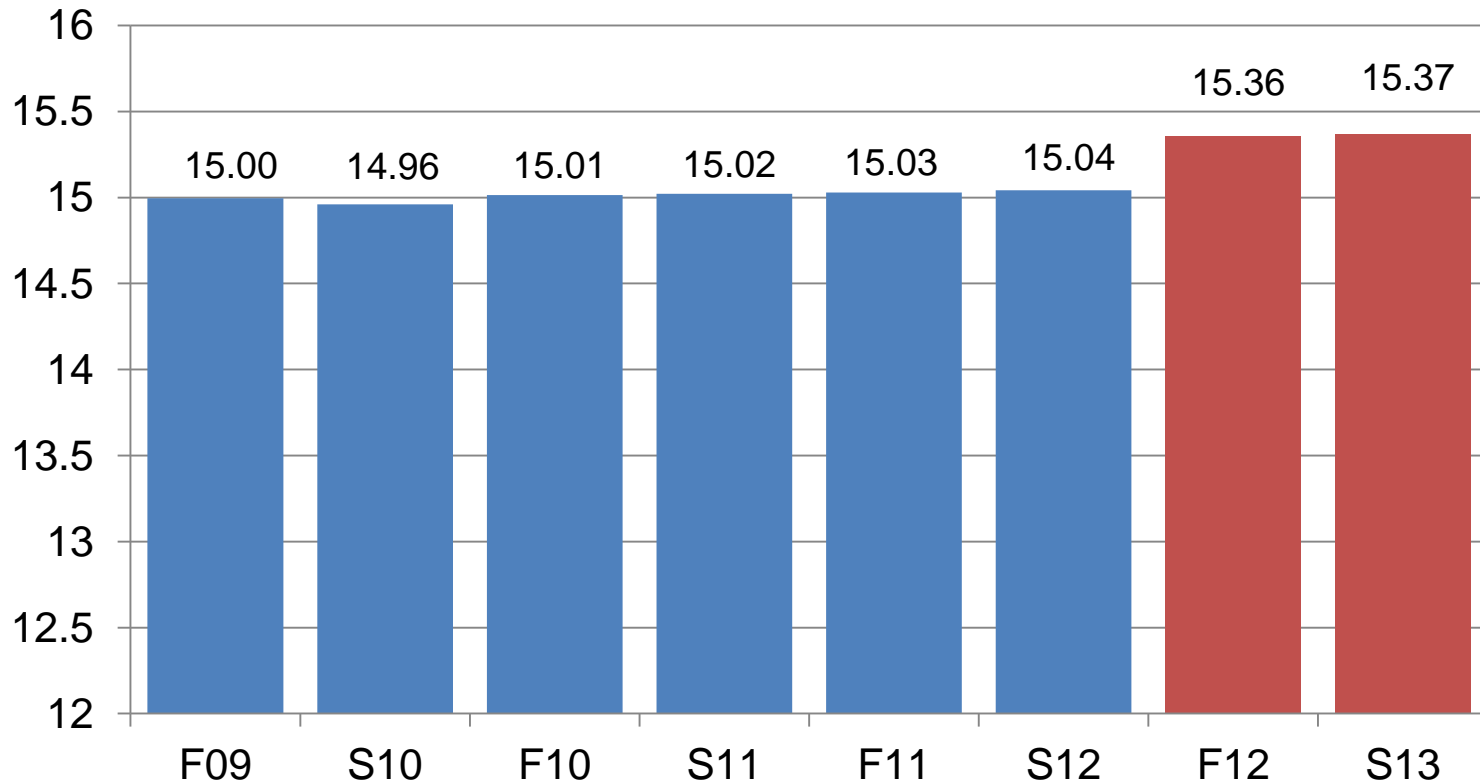
# Average Total SCH

FULL TIME UNDERGRADS



# Average Total SCH

FULL TIME UNDERGRADS TAKING ONE OR MORE COURSES BY DE



# Course Redesign

## SHARED CHARACTERISTICS

- Gateway – Critical path
- “High-needs”
- 300+ annual enrollment
- Large lecture or multi-section
- Multiple instructors
- >25-35% students receive D/F grades
- Limited faculty resources
- Passive learning



# Course Redesign

## STRUCTURAL CHANGES TO COURSES

### DELTA's Programs

- Precalculus Algebra and Trigonometry
- Engineering Statics
- Introduction to Statistics
- College Physics – KitLab
- Precalculus Algebra
- Calculus I
- Applied Differential Equations
- Physics for Engineers and Scientists
- Foundations of Graphics
- Concepts of Financial Reporting
- Microbiology
- World Architecture

### Why “Flip”?

- Leverage technologies for content delivery
- Restructure student learning time to be more efficient

#### Example Comparison of ST311 Course Structure

PRIOR TO REDESIGN	Lecture with Activities (65 students for 50 minutes)	Lecture with Activities (65 students for 50 minutes)	Lecture with Activities (65 students for 50 minutes)
REDESIGNED	Individual Learning (individual students interacting w/online content)	Individual Learning (individual students interacting w/online content)	Face-to-face activities (30 students for 50 minutes)

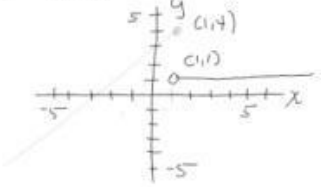
# Course Redesign

## PRECALCULUS ALGEBRA & TRIGONOMETRY (MA111)

### Technology Used


- Moodle
- LiveScribe
- Videos (example problems)
- Static text documents (PDF)
- Online low-stakes quizzes

Example 4.3.1  
Given the following sketch of the function  $h$ , find  $h(x)$ .



$(1, 4) \rightarrow (0, 3)$        $(0, 3)$   
 $y\text{-intercept} = 3$        $y = \frac{1}{2}x + 3$   
 $y = mx + b$   
 $m = \frac{y_2 - y_1}{x_2 - x_1}$

Wait!  $\begin{cases} x < 3 & x \leq 1 \\ 1 & x \geq 1 \end{cases}$

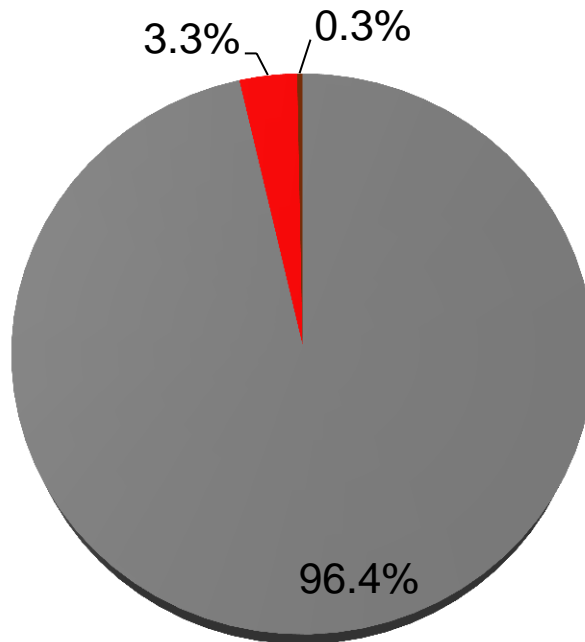




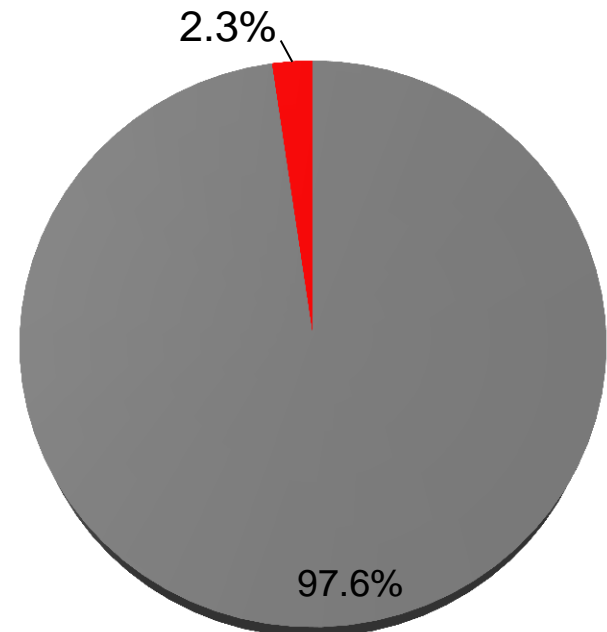
# Course Redesign

PRECALCULUS ALGEBRA & TRIGONOMETRY (MA111)

## Rate of Attempts Required to Pass



**Traditional**

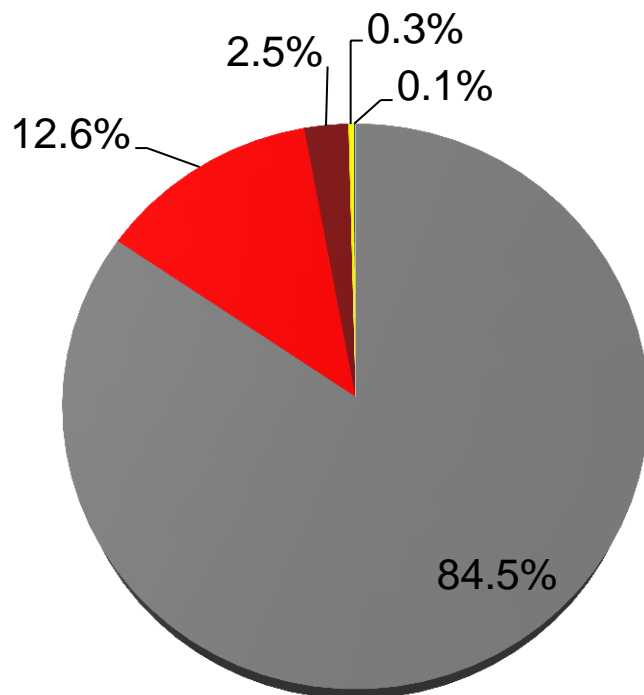


**Redesigned**

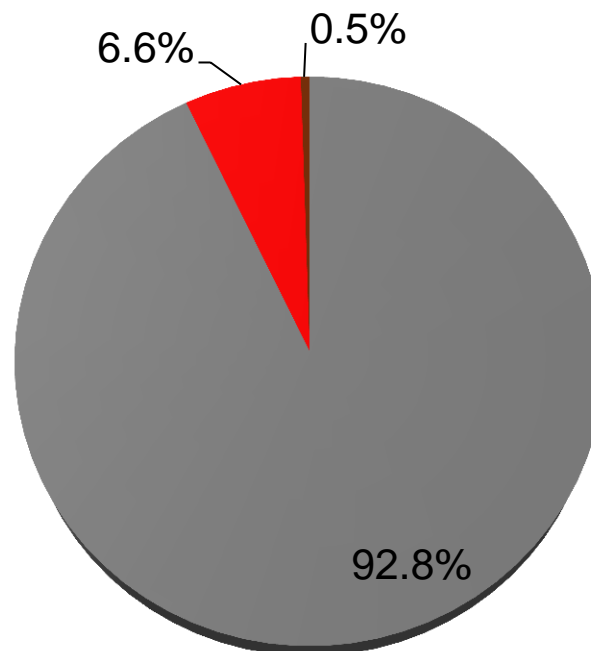
# Course Redesign

TRACKING STUDENTS TO CALCULUS (MA141)

Rate of Attempts Required to Pass



Preparatory Course:  
MA111 Traditional



Preparatory Course:  
MA111 Redesigned



SUPPORTING STUDENT SUCCESS

# LOOKING FORWARD

# Targets for Continued Success

- Intra-campus transfer
- First-year life sciences program
- Expand intrusive advising models
- Continue to expand advising technology
- Flexible, but rigorous interdisciplinary degree program
- Large Course Redesign in more advanced classes
- Student learning assessments
- Expanded tracking of post-graduation student outcomes

# Questions?