Student Success Initiatives

Warwick Arden, Executive Vice Chancellor and Provost

Board of Visitors • Friday, September 29, 2017
NC State’s Strategic Plan Goals

1. Enhance the **success of our students** through educational innovation.

2. Enhance scholarship and research by **investing in faculty and infrastructure**.

3. Enhance **interdisciplinary scholarship** to address the grand challenges of society.

4. Enhance **organizational excellence** by creating a culture of constant improvement.

5. Enhance local and global engagement through focused **strategic partnerships**.
2025 Enrollment Plan Goals

- Improve the **quality and standing** of NC State’s academic programs;
- Enhance the **success of our students**;
- Enhance **diversity** to encourage interactions among students from different racial and ethnic, social and economic, geographic, and religious backgrounds;
- Develop new academic programs with an emphasis on **interdisciplinary fields of study**;
- **Improve the planning process** to reduce “volatility” in enrollment growth thus establishing a manageable growth pattern;
- Ensure **sufficient access** for North Carolinians to programs that are relatively unique in the UNC system, **while emphasizing competitive excellence** in programs offered by other campuses; and
- Increase **globalization engagement**.
UNDERGRADUATE STUDENT SUCCESS
Undergraduate Recruitment
New Freshman Applications

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>16,437</td>
</tr>
<tr>
<td>2008</td>
<td>17,661</td>
</tr>
<tr>
<td>2009</td>
<td>18,502</td>
</tr>
<tr>
<td>2010</td>
<td>19,148</td>
</tr>
<tr>
<td>2011</td>
<td>19,634</td>
</tr>
<tr>
<td>2012</td>
<td>20,298</td>
</tr>
<tr>
<td>2013</td>
<td>21,619</td>
</tr>
<tr>
<td>2014</td>
<td>20,213</td>
</tr>
<tr>
<td>2015</td>
<td>21,099</td>
</tr>
<tr>
<td>2016</td>
<td>26,160</td>
</tr>
<tr>
<td>2017*</td>
<td>26,732</td>
</tr>
</tbody>
</table>

OIRP Freshman Profile, 10-year Trend, Fall Semester First-Time-In-College Bachelor's Degree Students, 2007-2016
Enrollment Management and Services, Census Fall 2017 Admission Status Report
Undergraduate Recruitment
New Freshman Enrolled

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>4,791</td>
</tr>
<tr>
<td>2008</td>
<td>4,669</td>
</tr>
<tr>
<td>2009</td>
<td>4,637</td>
</tr>
<tr>
<td>2010</td>
<td>4,558</td>
</tr>
<tr>
<td>2011</td>
<td>4,564</td>
</tr>
<tr>
<td>2012</td>
<td>4,225</td>
</tr>
<tr>
<td>2013</td>
<td>4,165</td>
</tr>
<tr>
<td>2014</td>
<td>4,374</td>
</tr>
<tr>
<td>2015</td>
<td>4,210</td>
</tr>
<tr>
<td>2016</td>
<td>4,242</td>
</tr>
<tr>
<td>2017*</td>
<td>4,656</td>
</tr>
</tbody>
</table>

OIRP Freshman Profile, 10-year Trend, Fall Semester First-Time-In-College Bachelor's Degree Students, 2007-2016
Enrollment Management and Services, Census Fall 2017 Admission Status Report
Undergraduate Recruitment
NC Community College Transfer Applications

- Fall 2011: 1,468
- Fall 2012: 1,585
- Fall 2013: 1,452
- Fall 2014: 1,425
- Fall 2015: 1,649
- Fall 2016: 1,841
- Fall 2017: 1,883

Apply
Enroll
The Applicants

NC State received more than 27,000 undergraduate applications for the fall semester. Applications were received from every county in North Carolina, all 50 states and 109 countries.

Top states outside of North Carolina:
- Virginia: 1,117
- Maryland: 847
- New Jersey: 826
- New York: 824
- Pennsylvania: 601

Top countries outside of the U.S.:
- China: 957
- India: 302
- Mexico: 61
- South Korea: 61
- Saudi Arabia: 39
- Pakistan: 37
Fall 2017 Freshman Class
4,656 ENROLLED STUDENTS

Composition and Academic Achievement

<table>
<thead>
<tr>
<th>Average High School GPA (unweighted)</th>
<th>3.72</th>
<th>Students from outside North Carolina</th>
<th>766</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average High School GPA (weighted)</td>
<td>4.54</td>
<td>Students from rural North Carolina counties</td>
<td>1019</td>
</tr>
<tr>
<td>Top 10% of High School class</td>
<td>47%</td>
<td>First Generation college-bound students</td>
<td>514</td>
</tr>
<tr>
<td>Average SAT score of enrolled students</td>
<td>1308</td>
<td>Non-white students</td>
<td>30%</td>
</tr>
<tr>
<td>Average ACT score of enrolled students</td>
<td>29</td>
<td>Of incoming enrolled students are female</td>
<td>48%</td>
</tr>
<tr>
<td>Perfect score on the ACT (Math)</td>
<td>42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perfect score on the ACT (Science)</td>
<td>81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perfect score on the ACT (English)</td>
<td>53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perfect score on the ACT (Reading)</td>
<td>101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valedictorians and Salutatorians</td>
<td>206</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP test scores submitted of a 5</td>
<td>3,445</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Academic Achievement of Enrolling Students

Average High School GPA of Incoming Students

<table>
<thead>
<tr>
<th>Year</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>4.37</td>
</tr>
<tr>
<td>2013</td>
<td>4.43</td>
</tr>
<tr>
<td>2014</td>
<td>4.45</td>
</tr>
<tr>
<td>2015</td>
<td>4.44</td>
</tr>
<tr>
<td>2016</td>
<td>4.53</td>
</tr>
<tr>
<td>2017</td>
<td>4.54</td>
</tr>
</tbody>
</table>

Students in Top 10% of High School Class

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>49.1%</td>
</tr>
<tr>
<td>2013</td>
<td>50.3%</td>
</tr>
<tr>
<td>2014</td>
<td>51.7%</td>
</tr>
<tr>
<td>2015</td>
<td>50.9%</td>
</tr>
<tr>
<td>2016</td>
<td>51.9%</td>
</tr>
<tr>
<td>2017</td>
<td>47.0%</td>
</tr>
</tbody>
</table>

Average SAT Score of Incoming Students

<table>
<thead>
<tr>
<th>Year</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>1218</td>
</tr>
<tr>
<td>2013</td>
<td>1242</td>
</tr>
<tr>
<td>2014</td>
<td>1248</td>
</tr>
<tr>
<td>2015</td>
<td>1251</td>
</tr>
<tr>
<td>2016</td>
<td>1261</td>
</tr>
<tr>
<td>2017</td>
<td>1308</td>
</tr>
</tbody>
</table>

Average ACT Score of Incoming Students

<table>
<thead>
<tr>
<th>Year</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>27.5</td>
</tr>
<tr>
<td>2013</td>
<td>28.2</td>
</tr>
<tr>
<td>2014</td>
<td>28.4</td>
</tr>
<tr>
<td>2015</td>
<td>28.7</td>
</tr>
<tr>
<td>2016</td>
<td>28.9</td>
</tr>
<tr>
<td>2017</td>
<td>28.8</td>
</tr>
</tbody>
</table>
Quick Facts

• 465 total enrolled
• 450 from North Carolina
• 24% first generation
• 38% rural North Carolina counties
• 34% non-white students

Top 10 Academic Programs

• Life Sciences
• Exploratory Studies
• Management
• Psychology
• Communications
• Political Science
• Agricultural Business
• Chemistry
• Sport Management
• Agriculture

Academic Averages

• 4.28 weighted GPA
• 3.58 unweighted GPA
• 1129 average SAT
• 22 average ACT
Improved Technology

MyPack 9.2 Upgrade

- Enhanced user experience
- Updated navigation and features
- Mobile-friendly with a fluid-design

Components include:

- Customizable home screen
- Degree Audit
- Pack Planner
- Enrollment Wizard
- Advising Dashboard
- Parent and Guardian Access
Managing Internal Transfers

• Centralization of internal transfer
• Online Change of Degree Application (CODA)

Completed CODA Applications
Students Accepted and Moved - by Term

<table>
<thead>
<tr>
<th>Term</th>
<th>Fall 2015</th>
<th>Spring 2016</th>
<th>Sum 2016</th>
<th>Fall 2016</th>
<th>Spring 2017</th>
<th>Sum 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>857</td>
<td>667</td>
<td>1319</td>
<td>648</td>
<td>421</td>
<td>1222</td>
</tr>
<tr>
<td></td>
<td>1681</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Completed</td>
<td></td>
<td></td>
<td>195</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Transfer Recruitment + Success

- Transfer Pathways
- Improved technologies
- Transfer teams

Undergraduate Admissions

Transfer Pathways

The following pathways to degrees were developed in order to identify community college courses that provide pathways leading to associate degree completion, admission into a major, and baccalaureate completion.

The community college courses identified on the following pathways were selected for inclusion because they both fulfilled requirements for an Associate degree and transferred to NC State University for credit towards a baccalaureate degree.

We encourage you to use the pathways created as a guide while working with your academic advisor to select the best courses to reach your academic goals and progress toward your intended degree. Following a pathway does not guarantee admission to NC State or guarantee an AA/AS degree or BA/BS degree will be conferred and the courses included in the pathways can change at any time.

What we look for → NC State degree requirements →
Goodnight Scholars Program

• Focused on middle-income North Carolina students
• STEM and education majors
• Class of 2021 - 50 scholars
• Transfer Class of 2019 - 10 scholars

Madeline Yun ’19
Chemical Engineering
Transfer – Durham Technical CC
Provost’s Professional Experience Program

- 500+ paid positions across campus
- Positions in communications, marketing, diversity, student involvement, data analysis, health services, academic support services and research
- 50%+ positions in undergraduate research opportunities

Emily Stafford ’17
Art + Design and Anthropology
Smithsonian Institute
Academic Coordinator for Transfer Students

• Works with prospective, new, current, and recently re-admitted transfer students

• First Annual Transfer Advising Summit on October 2\textsuperscript{nd}

• Involved with
  – Transfer Student Success Coordinating Committee
  – NC Community College Advising Association
  – NC Transfer Advisory Committees
Academic Success Center at D.H. Hill Library

• Budget: $9.3M
• Estimated Completion: Spring 2020
• Designer: Lord Aeck Sargent
• Construction Manager at Risk: Holder Construction
Academic Success Center at D.H. Hill Library

• Drop-in tutoring and tutoring by appointment
• Writing center
• Drop-in academic coaching, academic advising and career counseling
• Undergraduate Research Office
Military and Veteran Services

The 2017 Raleigh Hiring Fair is coming to NC State on August 23! DETAILS AND MORE INFORMATION

Serving Those Who Have Served

NC State is proud to announce the opening of the new Military and Veterans Resource Center. Learn more →
Counseling Center: Scope of Work

- Brief individual, group, and couples counseling
- Psychiatric evaluation and treatment
- 24-hour crisis response
- Academic and career counseling and semester withdrawals
- Outreach
- Campus and community referrals
- Faculty, staff, and student consultation
- Mental health educational programming and training
- Postvention services
Counseling Center: Trends

Our 5-Yr Progress

2012-13
- Clinicians: 18
- Psychiatrists: 3 contract
- Trainees: 1,500 total appointments

2016-17
- Clinicians: 31
- Psychiatrists: 3.5 perm, 5 part-time psychiatry fellows
- Trainees: 8,648 total appointments
Living and Learning Villages

Albright Entrepreneurs Village

Engineering Village

Global Village

S.T.A.T.E. Village
Online Learning and Learning Technologies
Strategic Approaches

• Online Courses for Campus Students
  – accelerate progress toward degree

• Large Course Redesign
  – improve success rates in critical path courses

• Innovations in Learning Technologies
  – improve student learning experience and outcomes
Online Courses for Campus Students

• Goals:
  – Make online courses available to traditional degree-seeking undergraduates to provide flexibility needed to maintain or accelerate progress to degree
  – Provide resources to assist faculty and support student success in online courses
    • Virtual Orientation
    • Proctoring Services

2016-17

546 Online Courses in 68 Academic Departments

Credit Hours Earned 72,658
Students Impacted 12,674

Students in Virtual Orientation 3,138
Exams Proctored 56,886
Online Courses for Campus Students

Undergraduate degree-seeking students enrolling in online classes

- 2009-10
- 2010-11
- 2011-12
- 2012-13
- 2013-14
- 2014-15
- 2015-16
- 2016-17

Headcount
SCH
Online Courses for Campus Students

Undergraduate degree-seeking students enrolling in online classes

Tuition policy change

- Headcount
- SCH
Large Course Redesign

• Goals:
  – Redesign large “gateway” courses to improve student learning outcomes
  – Work with instructors to develop the best mix of face-to-face and technology-mediated pedagogies to maximize student learning.

<table>
<thead>
<tr>
<th>Courses Redesigned</th>
<th>Students Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>31,025</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>“A” and “B” Grades</th>
<th>DFW Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 25% Higher</td>
<td>Cut in Half</td>
</tr>
</tbody>
</table>
Large Course Redesign
MAE 206 – Engineering Statics

• Course redesign outcomes (2005-2013)
  – 46% reduction in DFWs, from 16.88% to 9.05%
  – Transfer of knowledge to MAE 208 – Engineering Dynamics
    • 7.4% increased probability of passing on first attempt
    • Students earned significantly more B’s and fewer C’s and D’s
    • Course repeats reduced by more than half
Innovations in Learning Technologies

• Goals:
  – Pursue applied research into new tools and technologies for enhancing student learning across the range of disciplines at NC State.
  – Work with faculty through competitive grants to identify opportunities to integrate these innovations into courses and assess outcomes.
Students use the **MyTech mobile app** on their smartphones during lab to collect data in experiments.
Virtual Reality in Online Education

Immersive experiences and VR enrich the student experience and give them a unique perspective and opportunity to explore environments and observe demonstrations that they may not be able to do in real life.

NC State Global Training Initiative’s “GlobalVR” course module features first-person point of view 360 VR video-based simulations to help students improve their cultural competence.

Virtual Reality in Online Education

Immersive experiences and VR enrich the student experience and give them a unique perspective and opportunity to explore environments and observe demonstrations that they may not be able to do in real life.
The NC State DELTA Team uses 360 VR video to capture the process and safety techniques behind prescribed fire for a College of Natural Resources online course.

Virtual Reality in Online Education

Immersive experiences and VR enrich the student experience and give them a unique perspective and opportunity to explore environments and observe demonstrations that they may not be able to do in real life.
UNDERGRADUATE STUDENT SUCCESS OUTCOMES
Freshman Retention Rates
1995-2016

Registration and Records Preliminary Report as of Census Fall 2017
Freshman Graduation Rates
1995-2013

Registration and Records Preliminary Report as of Census 2017
Number of Undergraduate Enrolled Semesters to Graduate

- Fall 2005: 8.85
- Fall 2006: 8.83
- Fall 2007: 8.84
- Fall 2008: 8.76
- Fall 2009: 8.67
- Fall 2010: 8.56
- Fall 2011: 8.47
Bachelor’s Degrees Awarded

2009-10: 4,790
2010-11: 5,182
2011-12: 5,464
2012-13: 5,446
2013-14: 5,541
2014-15: 5,555
2015-16: 5,677
2016-17: 5,634
1. Baseline rank is from 2011 edition which was released Fall 2010.
Five-Year Student Success Report
2011 to 2016

• Key Components of Success
• Student Success Trends
• Undergraduate Initiatives
• Graduate Student Programs
• Facts and Figures

strategicplan.ncsu.edu/
five-year-student-success-report-2011-2016/
DISCUSSION