College of Arts & Sciences
College of Arts & Sciences
Progress on 2025 Goals

October 6, 2016
Organization of the Talk

• Our progress toward strategic plan (K-State 2025)
• Challenges facing the college
• Future course of action
We produce well-rounded, diverse graduates with comprehensive educations and international experiences.

5,000 UG, 300 Master’s, 400+ PhD

• ~600 Faculty; 2/3 of all Distinguished Professors and Teaching Scholars are in ArtSci

• ArtSci contributes to the education of every K-State graduate

• More than 75% of nationally competitive scholars are in ArtSci
Research Funding and Expenditure Trends for A&S

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Total Grants Received</th>
<th>Research Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2012</td>
<td>23.5</td>
<td>30.5</td>
</tr>
<tr>
<td>FY 2013</td>
<td>22.5</td>
<td>31.5</td>
</tr>
<tr>
<td>FY 2014</td>
<td>22.5</td>
<td>30.5</td>
</tr>
<tr>
<td>FY 2015</td>
<td>25.5</td>
<td>32.5</td>
</tr>
<tr>
<td>FY 2016</td>
<td>20.5</td>
<td>29.5</td>
</tr>
</tbody>
</table>
Major Project Awards/Renewals

- FY 12: NSF Major Research Instrumentation
  Femtosecond Laser ($693K); Physics
  Mass Spectrometer for Lipidomics ($440K); Biology

- FY 14: $7M NSF Konza LTER Program funding renewed for 6 yrs (Biology)

- FY 14: NSF Major Research Instrumentation
  Adaptive Data Cluster ($600K); A&S, Engineering
  Nuclear Magnetic Resonance ($1.2M); A&S, CVM, Engg

- FY 16: $8M Dept of Energy award for JR Macdonald Lab in Physics renewal for 3 yrs
RSCAD – Intramural Funding

• 11 A&S faculty received USRG awards
• 22 A&S faculty received FDAs
• 12 A&S faculty received A&S Faculty Enhancement Awards in FY16

• Funding Agencies Visit
  – 6th year of implementation
  – Served 66 unique faculty
  – Prior recipients have submitted conference papers, had international art exhibitions, multiple soloist invitations, published articles, completed book manuscripts, submitted and received extramural funding for RSCAD.
Five-Year Trends in Retention and Graduation Rates

First-year retention

Six-year graduation
UG Experience – Instructional Improvements Provided by $8 Fee

<table>
<thead>
<tr>
<th></th>
<th>FY 14</th>
<th>FY 15</th>
<th>FY 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate teaching assistants</td>
<td>$149.5K</td>
<td>$248K</td>
<td>$352K</td>
</tr>
<tr>
<td>Departmental allocations for supplies, small equipment, technology, classroom improvements, etc</td>
<td>$389K</td>
<td>$1.6M</td>
<td>$1.08M</td>
</tr>
<tr>
<td>Large instructional equipment grants</td>
<td>$451K</td>
<td>$537K</td>
<td>$336K</td>
</tr>
</tbody>
</table>
Research and Travel Scholarships

• Expanded opportunities for students to participate in experiential learning and research through new College-level programs

<table>
<thead>
<tr>
<th>Year</th>
<th># UG research scholarships</th>
<th>#UG research travel awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2014</td>
<td>83</td>
<td>36</td>
</tr>
<tr>
<td>FY 2015</td>
<td>108</td>
<td>49</td>
</tr>
<tr>
<td>FY 2016</td>
<td>59</td>
<td>84</td>
</tr>
</tbody>
</table>
UG Experience – Study Abroad

- Steady increase in number of students choosing international experiences

<table>
<thead>
<tr>
<th>Year</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011-12</td>
<td>126</td>
</tr>
<tr>
<td>2012-13</td>
<td>164</td>
</tr>
<tr>
<td>2013-14</td>
<td>157</td>
</tr>
<tr>
<td>2014-15</td>
<td>171</td>
</tr>
<tr>
<td>2015-16</td>
<td>223</td>
</tr>
</tbody>
</table>
Student Awards – Nationally Competitive Scholarships

- **Goldwater Scholars** – up to $7500/yr
  - 2012: Angela Grommet, Chemistry
  - 2013: Jenny Barriga, Chemistry
  - 2014: Max Goering, Mathematics and Christine Spartz, Chemistry
  - 2015: Joshua Nelson, Physics
  - 2016: Adam Schieferecke, Microbiology

- **Benjamin A. Gilman International Scholars** - $5000 awards
  - 2011-12: Justine Gruen, Social Science
  - 2013-14: Micah Wilcher, History; Khiana Harris, Anthropology and Psychology
  - 2014-15: Marcus Dominguez, Sociology
Student Awards – Nationally Competitive Scholarships, cont.

- **Marshall Scholars** – up to 2 yrs graduate study
  - 2015 Jordan Thomas, Anthropology

- **Truman Scholars** – up to $30K for graduate study
  - 2014: Ross Allen, Philosophy and Economics

- **Pi Kappa Phi National Fellows** - $5000
  - 2013: Brett McCandless, Music and Social Science
  - 2014: Jenny Barriga, Chemistry
  - 2016: Jessica Wheeler, Biochemistry

- **Other nationally competitive scholarships:**
  - Joel Blankenship, Political Science, History, and International Studies, David L. Boren Scholar
  - Shai Washington, Political Science, Pickering Foreign Affairs Fellowship
Graduate Enrollment and Degree Production

- Masters Degrees
- PhD Degrees
- Masters Enrollment
- Doctoral Enrollment

Nationally Competitive Grad Fellowships/Honors

• Attend Lindau Nobel Laureate meeting
  – 2011-12: Nora Johnson, Physics
  – 2012-13: Elizabeth Ploetz, Chemistry
  – 2013-14: Heih Shadmani, Economics
  – 2014-15: Courtney Passow, Biology

• NSF Graduate Research Fellowships
  – 2013: Derrek Wilson, Physics
  – 2015: Matthew Galliart, Biology
  – 2016: Ryan Greenway, Biology, Obdulia Covarrubias, Chemistry, Catherine Hill, Psych Sci

• David S. Boren Fellowship
  – 2013: Tony Demchak, History

• National Defense Science & Engineering Grad Fellowship
  – 2014: Adam Summers, Physics
ENGAGEMENT, EXTENSION, OUTREACH, AND SERVICE
Diversity Initiatives and Achievements

- ArtSci involvement in SACNAS chapter
- Diversity overlay in all college degrees
- Student Diversity Summit in April 2016
- Multicultural Student Day
- Tilford Conference in October 2016
- Voices of Discovery group
- Junction City HS College for a Day program
The usual EDF works well for fitting a random sample.

\[ F \rightarrow x = (x_1, \ldots, x_n) \rightarrow \hat{F} \rightarrow x^* \]

This step is key.
University Theme 5 – Faculty and Staff

• College goals:
  – Enhance faculty and staff salaries where possible
  – 2012-13: 17.6% rank-by-rank deficit (APLU)
  – 2014-15: 12.7% rank-by-rank deficit (APLU)
  – 2015-16: 12.9% rank-by-rank deficit (APLU)

• Utilize targeted enhancements to retain high-performing faculty
Faculty Recruitment

- 18 retirements in FY16 (open in FY17)
- Currently searching for 16 new faculty
- 1 five-year department head review
- Opened 120 new sections to address enrollment growth since FY12
Faculty Awards/Recognition

- **UDPs**: Bharat Ratra, Physics, 2016; Wayne Goins, MTD, 2015; Yolanda Broyles-Gonzalez, Ryszard Jankowiak, Philip Nel, 2013; Christer Aakeroy, Chemistry, Itzik Ben-Itzhak, Physics, Susan Brown, Biology, Ruth Welti, Biology, 2012

- **Coffman Chair for Distinguished Teaching Scholars**: Donald Saucier, Psych Sci, 2015-16; John Fliter, Political Sciences, 2013-14

- **Commerce Bank Distinguished Graduate Faculty Award**: Philip Nel, English, 2011-12; Bharat Ratra, Physics, 2012-13; Daniel Higgins, Chemistry, 2013-14; Uwe Thumm, Physics, 2014-15
# State, National & International Awards to Faculty

<table>
<thead>
<tr>
<th>Year</th>
<th>Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>Matthias Kling, Physics, Dept of Energy Early Career Research Award</td>
</tr>
</tbody>
</table>
| 2013 | Greg Eiselein, English, 2013 CASE Kansas Professor of the Year  
Uwe Thumm, Physics, Humboldt Research Award |
| 2014 | Susan Brown, Biology, Higuchi Research Achievement Award  
Andrew Ivanov, Physics, Dept of Energy Early Career Research Award  
Dean Zollman, Oersted Medal  
Uwe Thumm, Physics, Humboldt Foundation Research Award |
| 2015 | Christine Aikens, Chemistry, American Chemical Society Lectureship  
Darren Epping, Comm Studies (Forensics); Outstanding Young Coach of the Year |
| 2016 | Christer Aakeroy, Chemistry, Higuchi Research Achievement Award  
Philip Nel, English, Higuchi Research Achievement Award |
<table>
<thead>
<tr>
<th>Year</th>
<th>Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>John Blair, Biology; Ron Trewyn, Biology; Ruth Welti, Biology; AAAS Peter Dorhout; American Chemical Society</td>
</tr>
<tr>
<td>2013</td>
<td>Walter Dodds, Biology, and Donald Kaufman, Biology; AAAS</td>
</tr>
<tr>
<td>2014</td>
<td>Chris Sorenson, Physics; AAAS</td>
</tr>
<tr>
<td>2015</td>
<td>Walter Dodds, Biology; Ass’n for Sciences of Limnology &amp; Oceanography Michael Kanost, Biochemistry &amp; Molecular Biophysics; Entomological Society of America John Blair, Biology; Ecological Society of America Charles G. Oviatt (emeritus); Geology, Geological Society of America</td>
</tr>
<tr>
<td>2016</td>
<td>Walter Dodds, Biology; Society for Freshwater Science</td>
</tr>
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FACILITIES AND INFRASTRUCTURE
Space Migration

• A&S Dean’s Office, History, Political Science moving into Calvin Hall, January 2017
• Comm Studies/MTD/Geology reconfiguration and new space in Nichols Hall, Summer 2016
• Modern Languages/Geography reconfiguration and new space in Eisenhower Hall (in conjunction with Graduate School), Summer 2017
• Chapman Center/Mathematics new space in Leasure Hall, early 2017
• Center for Research and Education in STEM Education new space in Anderson Hall, Summer 2016
• English adding space in E/CS, Summer 2017
Health & Safety Improvements

• Willard Phase 3 HVAC and safety improvements for Photography and Printmaking
• Willard Phase 4 Ceramics ventilation and safety improvements
• McCain Costume Shop mold remediation and ventilation improvements
• Bluemont fume hood replacement for Psych Sci
Major Space Additions/Remodels

• Leasure office suite for American Ethnic Studies
• Waters office suite and studio for SASW new faculty member
• Purple Masque Theatre in West Memorial Stadium
• Burt lab renovations (Donor funding)
• McCain 204 renovations to Kirmser Hall (Donor funding)
• Upgrades to Chapman Theatre in Nichols (Donor funding)
• Eisenhower Language Lab renovations (Donor funding)
• Geosciences Building approved by KBoR, funds being raised
• A&S has 26 buildings with over $87M in R&R needs per 2010 KBOR report
Fundraising Highlights

- Steady, annual progress on $100M goal
  - FY11: $5.2M
  - FY12: $9.3M
  - FY13: $9.9M
  - FY14: $12.4M
  - FY15: $17.1M
  - FY16: $22M
- Now at $76.5M
- Endowment growing ($100M goal)
  - FY16: $54.8M
<table>
<thead>
<tr>
<th>University Benchmark Goal</th>
<th>College Baseline</th>
<th>FY15-16</th>
<th>College Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-1 Research expenditures</td>
<td>$31.2M</td>
<td>$28.4M</td>
<td>$49M</td>
</tr>
<tr>
<td>B-2 Endowment</td>
<td>$39M</td>
<td>$55M</td>
<td>$100M</td>
</tr>
<tr>
<td>B-3 NAS/NEH members</td>
<td>0</td>
<td>0</td>
<td>3-5</td>
</tr>
<tr>
<td>B-4 Faculty awards</td>
<td>6</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>B-5 PhDs per year</td>
<td>57</td>
<td>63</td>
<td>90</td>
</tr>
<tr>
<td>B-6 Fr/Sophomore retention</td>
<td>77%</td>
<td>81%</td>
<td>90%</td>
</tr>
<tr>
<td>B-7 6-yr grad rate</td>
<td>53%</td>
<td>58%</td>
<td>70%</td>
</tr>
<tr>
<td>B-8 UG research participation</td>
<td>?</td>
<td>59 A&amp;S scholarships*</td>
<td>TBD</td>
</tr>
</tbody>
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Challenges

• Recruitment and Retention of faculty
• Recruitment and retention of students
• Provide incentives for RSCAD. Next growth in RSCAD will come from multi-investor and many single-investigator grants (NIH, DoD gap)
• Delicate balance between how to fund and maintain high quality of programs.
RSCAD Activities for Early Career A&S Faculty

- Arts & Humanities: 32
- Social Sciences: 19
- Natural & Quant Sci: 10
- Arts & Humanities: 5
- Social Sciences: 6

Faculty Enhancement Awards vs. DC Trip Attendees
Recent Developments

• New advisors being hired across college with new fee funds
• **GTA stipends raised to peer median levels for AY 2016-17 across college with new fee funding of $1.88M**
• New Ron Gaches Teaching Awards
• Olathe high school STEM outreach
• Donor supported faculty research program
• Funding for faculty working to put together large interdisciplinary grant proposals
• Undergraduate Research Opportunities Fair promoted with a scholarship raffle
• UDP videos
• UG research videos
• Recruitment and retention workshops
• Faculty Socials with a theme