CAST - 2010-11 Annual Report
Ball State University

College of Applied Sciences and Technology - CAST

Mitch Whaley, Dean
Jack Wescott, Associate Dean

Department of Family and Consumer Sciences – DFCS

Jay Kandiah, Chairperson

Department of Technology – DOT

Ray Shackelford, Chairperson

Department of Military Science – MS

LTC Steven Hibler, Chairperson

Fisher Institute for Wellness and Gerontology - FIFWG

Kathy Segrist, Interim - Director

School of Nursing – SON

Linda Siktberg, Director

School of Physical Education, Sport, and Exercise Science - SPESES

Tom Weidner, Chairperson
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DEPARTMENT OF FAMILY AND CONSUMER SCIENCES (DFCS)
DEPARTMENT OF TECHNOLOGY (DOT)
DEPARTMENT OF MILITARY SCIENCE (DMS)
FISHER INSTITUTE FOR WELLNESS AND GERONTOLOGY (FIWG)
SCHOOL OF NURSING (SON)
SCHOOL OF PHYSICAL EDUCATION, SPORT, AND EXERCISE SCIENCE (SPESES)
CAST: 2010-2011 Annual Report - Overview

Key Strengths/Accomplishments of CAST – 2010-11

1. **Continued Popular and Strong Academic Programs** (see Appendix A)
   a. Significant growth in **student credit hours generated by CAST programs**
      i. **6%** ↑ in past year; **27%** ↑ across last 9 yrs (Figure A-1)
      ii. Departmental data (Figure A-2)
   b. Significant growth in **students selecting CAST majors**
      i. **35%** ↑ across last 7 yrs (Figure A3)
      ii. Departmental data (Figure A-4)
   c. **Successful student certification/licensing outcomes in 2010-11** (Figure A-5)
      i. Exceeded "National Averages" for 9 of 10 credentialing exams across college
      ii. **100%** pass rates on 6 of 10 national exams
   d. **Accreditation/Reaccreditation in 2010-11**
      i. NCATE Reaccreditation of teacher education programs (DFCS, DOT & SPESES)
      ii. School of Nursing baccalaureate and master’s programs reaccredited by CCNE through 2021
      iii. Doctorate in Nursing Practice received “approval” from the Higher Learning Commission with no conditions
      iv. Manufacturing Engineering Technology program (DOT) reaccredited by Technology Accreditation Commission of Accreditation Boards for Engineering and Technology (TAC/ABET)
      v. Undergraduate Exercise Science program was again "Recognized" by the National Strength and Conditioning Association through 2012.
   e. **33** unique immersive learning projects in CAST, involving **493** students and **47** faculty (all significant increases over 2009-10)
   f. **Pervasive experiential learning culture within CAST academic programs**

2. **New Academic Programs Submitted – Approved by BSU BOT/ICHE**
   a. The Indiana Commission for Higher Education approved new undergraduate major in Construction Management effective fall 2010 (DOT)

3. **$1,888,487 in gifts to CAST Foundation accounts for FY 2011**
   a. **141** scholarship awards from **56** funds totaling **$208,814**

4. **Faculty/Student Scholarship** (see Appendix B)
   a. CAST RTE Ratios for Refereed Writing (3.36), National Presentations (3.30), and External Grant submissions (1.17), all exceeded CAST expectation of 1.0 (Table B-1)
   b. All Departments exceeded RTE 1.0 in each of the 3 categories (Table B-1)
   c. CAST Scholarship Ratios improved across the past 3 years (Figure B-2)

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1 AAIR Fall 2010 report
d. 151 refereed journal articles published († over 111 from last year) (Table B-1)
   i. † proportion of faculty with release time publishing refereed scholarship compared to last year (76% vs. 69%)

e. 27 textbooks & chapters (similar to 30 last year)

f. 252 refereed/invited presentations (Table B-1)
   i. 69% national/international scope (73% last yr)

g. Decline in external grant funding in FY11 compared to FY10 (Tables B-2 & B-3)
   i. Exceeded Strategic Plan goal of † 150% funding in 3 of last 4 years (Table B-2)
   ii. † external funding requests over last year ($10,379,265 vs. $6,590,198)

h. Increase in percentage of external proposals that included indirect costs compared to last year (42% vs. 32%)

i. Increase in percentage of faculty with scholarly release time that submitted new proposal as PI or had significant multi-year external funding carry forward (65% FY11 vs. 57% FY10)

j. Exceeded Strategic Plan goal of 40% † in external proposals in each of last 4 years (Table B-2)

k. Decline in median size of funded grants compared to previous years; remain short of 2012 goal (Table B-2 & B-3)
   i. † median “proposal” size over last year ($14,070 vs. $10,000)

5. Faculty Engagement in National Professional Leadership

   • Carla Farhart - Board Member, Housing Education and Research Association (DFCS)
   • David Haber - Fellow, Gerontological Society of America (FIWG)
   • David Haber - Expert Panel Member, Centers for Disease Control and Prevention (FIWG)
   • Scott Hall - Treasurer of the Family Science Association (DFCS)
   • Larry Judge - Chairman, AAPAR, Council for Facilities and Equipment (SPESES)
   • Larry Judge - Past-President, National Council on Accreditation for Coaching Education (SPESES)
   • Leonard Kaminsky - American Heart Association, Nutrition, Physical Activity & Metabolism Council (SPESES)
   • Rex Kanu - Treasurer, Society of Plastics Engineering, Rotational Molding Division (DOT)
   • Hans Kellogg - President-Elect, International Graphic Arts Education Association (DOT)
   • Beth Kelsey - Board of Directors, National Association of Nurse Practitioners in Women’s Health (SON)
   • Cindy Miller - President elect, Association of Home Equipment Educators (DFCS)
   • Carol Reed - Vice President of SEI Corporation, Scuba Educators International, Inc. (SPESES)
   • Kathy Segrist - American Society on Aging, Board of Directors Member (FIWG)
   • Kathy Segrist - Gerontology in Higher Education, Executive Committee (FIWG)
   • Richard Seymour - 2007-2010 President, Council for Technology Teacher Education (DOT)
   • Richard Seymour - International Technology and Engineering Educators Association Board of Directors (DOT)
   • He Wang - National Institutes of Health, Risk Prevention and Health Behavior Study Section (SPESES)
   • Ruijian Yang - Present, Electrical, Electronics & Computer Technology Division of the Association of Technology, Management, and Applied Engineering (DOT)

6. Faculty Engagement on Refereed Journal Editorial Boards

   • Rebecca Adams - Family and Consumer Sciences Research Journal (DFCS)
   • Nagia Ali - Cancer Nursing & American Journal of Health Behavior (SON)
   • Lindsey Blom - Journal of Coaching Education (SPESES)
   • Clark Dickin - World Journal of Orthopedics (SPESES)
   • Carla Farhart - Housing Education and Research Association (DFCS)
• James Flowers - Journal of Industrial Teacher Education (DOT)
• David Haber - (FIWG)
  • Journal of Applied Gerontology
  • Journal of Family and Community Health
  • Journal of Gerontology & Geriatrics Education
• Scott Hall - Family Science Review (DFCS)
• Kay Hodson Carlton - Nurse Educator (SON)
• Lawrence Jones - (SPESES)
  • The Physical Educator
  • Techniques Magazine
• Lisa Jette - Athletic Training Education Journal (SPESES)
• Jay Kandiah - Family and Consumer Sciences Research Journal (DFCS)
• Leonard Kaminsky - (SPESES)
  • Journal of Cardiopulmonary Rehabilitation
  • American College of Sports Medicine Health/Fitness Journal
• Thelma Lazo-Flores - International Journal for the Science of Design (DFCS)
• Anthony Mahon - (SPESES)
  • Pediatric Exercise Science
  • Research in Sports Medicine
• David Pearson - (SPESES)
  • Journal of Strength and Conditioning Research
  • National Strength and Conditioning
• Mary Annette Rose - The Technology Teacher (DOT)
• Alice Spangler - Family and Consumer Sciences Research Journal (DFCS)
• Scott Trappe - (SPESES)
  • Medicine and Science in Sports and Exercise
  • Journal of Applied Physiology
• Stacy Walker - Athletic Training Education Journal (SPESES)
• Thomas Weidner - (SPESES)
  • Journal of Athletic Training
  • Athletic Training Education Journal
• Mitchell Whaley - International Journal of Applied Sport Sciences (SPESES)
• Baijun Yang - International Journal of Intelligent Computing and Cybernetics (DOT)

7. Faculty/Student Honors and Awards

FACULTY - National

• Scott Hall - Outstanding Reviewer 2010, Journal of Family and Economic Issues (DFCS)
• Jay Kandiah - American Association of Family and Consumer Sciences - Leadership Award 2010 (DFCS)
• Jay Kandiah - Dietetic Educators and Practitioners Practice Group – Outstanding Educator Award 2010 (DFCS)
• Tarek Mahmoud - Outstanding Reviewer 2010 - American Association for Civil Engineers (DOT)
• Thomas Weidner - National Athletic Trainer’s Association Foundation Medal for Distinguished Athletic Training Research (SPESES)
• Thomas Weidner - Indiana Athletic Trainers Association Hall of Fame (SPESES)

FACULTY - Ball State University

• Mathew Harper - Outstanding Junior Faculty Award 2010 (SPESES)
• Marilyn Ryan – Outstanding Faculty Advisor Award 2010 (SON)

STUDENTS - National Awards/Competitions

• Krystel Harper, Top 2% nationally in Army Physical Fitness Test (MS-ROTC)
• Kenneth Lahman, George C. Marshall Award (MS-ROTC)
- *Shane Govert*, Graphic Arts Management program, won the Gold medal in the Post secondary division of the Skills USA Graphics Commendations competition, November 2010; Faculty Advisor: Tom Spotts (DOT)
- *Wade Thatcher*, Elected President from the Technology Education and Engineering Collegiate Association for 2010-11 (DOT)
- *Wade Thatcher*, 2011 TECA Award of Distinction from the International Technology Education and Engineering Collegiate Association; Faculty Advisor: Richard Seymour (DOT)
- *Construction Management students* (Alex Beasley, Edwin Frieden, Austin Hart, Michael Key, Ben Lamm, and Andrew Williams) – 1st Place nationally in Concrete Solutions Competition, American Schools of Construction, Reno, Nevada Regional Conference/Competitions, February, 2011; Faculty Advisor: Janet Fick; (DOT)
- *Technology Education students* (Taylor Orr, Brian Hunt, Quintin Quigley, and Chris Townsend) – 1st place in the TECA Technology Challenge at International Technology & Engineering Educators Association, Oct 2011; Faculty Advisor: Richard Seymour; (DOT)
- *Sport Administration graduate students* (Andrew Tuke, Kelly Diamond, Elizabeth Wanless, and David Hanley) – 3rd place nationally in Case Study Competition, College Sports Research Institute Conference, April 2011; Faculty Advisors: Larry Judge & David Pierce; (SPESES)

8. Scholarship Revenue from Department of Defense for Military Science
   - $300,000 funding for tuition for cadets in ROTC Program
9. **Key Challenges for CAST - 2011 and beyond**

1. Faculty demographics (only ~ 50% of full time faculty are tenure-line) *(Figure A-6)*
2. Solidify academic leadership position (FIWG)
3. Faculty merit systems within the college
4. More fully engage faculty with external funding goals within BSU Strategic Plan
5. Support of faculty scholarship with graduate assistantships (analyses ongoing)
6. Faculty retention: salary compression in regular and contract faculty positions within some departments of the college
7. Continue momentum in CAST fund raising activities
8. More fully engage faculty with a culture of assessment requisite for NCA
9. Renovation and Applied Technology Building (DFCS, DOT)
10. Continued funding of service/maintenance contracts for equipment and high end technology used within research and educational laboratories (~ $150,000 annually)
11. Maintaining external clinical sites supporting accredited programs (DFCS, DOT, SON, SPESES)
12. Complete implementation of *Digital Measures™* faculty activity software within CAST

10. **Key Plans/Initiatives for CAST 2010-2011**

1. Continue to execute plans to increase number and proportion of tenure-line faculty in college (8 new tenure-track hires for AY 2011-12)
2. Hire new director for FIWG
3. Continue assessment of "faculty-driven" departmental merit evaluation systems within the college
4. Improve key external funding metrics *(Appendix B)*
   a. ↑ overall external funding
   b. ↑ proportion of CAST faculty² that submit significant external funding proposals
   c. ↑ trajectory of external proposals (i.e., ↑ median size and ↑ % with IDC)
   d. ↑ proportion of CAST faculty² that have funded external proposals
5. Continue assessment of scholarship outcomes from graduate assistants³ and matching of graduate assistantships with scholarly faculty
6. Provide department chairs and key faculty professional development opportunities in fund raising (relates to #7 and #10 above)
7. Continue developing assessment infrastructure for student and program outcomes
8. Continue emphasis on:
   a. Faculty development for enhanced teaching and scholarship
   b. Immersive and experiential learning opportunities
   c. Innovative use of technology in education settings
   d. Development of strategic partnerships

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² faculty that have university-funded scholarly release time during academic year
³ GAs funded from university general fund budget
11. Progress on CAST Initiatives identified last year (CAST Annual Report 2009-2010)

- Significant Progress or Completion of 15 of 18 initiatives from last year

<table>
<thead>
<tr>
<th>Initiative</th>
<th>Progress</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>1. Devise plans to deliver instruction for growing college in light of budget reductions</td>
<td>YES</td>
<td>College plans for $192k reduction for 2010-12 forwarded to Provost – November 2010; Plans are achievable</td>
</tr>
<tr>
<td>2. Continue developing assessment infrastructure for student and program outcomes</td>
<td>YES</td>
<td>Fully implemented within all departments within CAST</td>
</tr>
<tr>
<td>3. Continue developing assessment infrastructure for student and program outcomes</td>
<td>YES</td>
<td>Associate Dean Wescott serving on University Assessment Committee; Departments actively collecting and archiving assessment data in Digital Repository and R-Grade</td>
</tr>
<tr>
<td>4. Assessment of &quot;faculty-driven&quot; departmental merit evaluation systems within the college</td>
<td>YES</td>
<td>College retreat (June 2010) with follow up departmental committee meetings (Fall 2010);</td>
</tr>
<tr>
<td>5. Execute plans to increase number and proportion of tenure-line faculty in college</td>
<td>YES</td>
<td>9 tenure-track faculty hired within the college – to begin 2011-12AY</td>
</tr>
<tr>
<td>6. Increase proportion of tenure-line faculty publishing refereed scholarship (69% in 2009-2010)</td>
<td>YES</td>
<td>75% of faculty with university-sponsored release time authored refereed articles</td>
</tr>
<tr>
<td>7. Increase proportion of tenure-line faculty meeting CAST release time expectations (70% in 2009-10)</td>
<td>YES</td>
<td>75% of CAST faculty receiving scholarly release time met the minimal expectations set forth in CAST Assigned Time Guidelines for Scholarly Productivity</td>
</tr>
<tr>
<td>8-a. Increase external funding to 2012 Goal of $1.7 million</td>
<td>NO (FY11)</td>
<td>- External funding for FY11 decreased from FY10; however, Strategic Plan Goal of ↑ 150% has been achieved in 3 of last 4 FYs (Figure B-1)</td>
</tr>
<tr>
<td></td>
<td>YES (FY08)</td>
<td>• Increase in funding requested in external proposals in FY11 $10.3 million vs. $6.6 million</td>
</tr>
<tr>
<td></td>
<td>YES (FY09)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>YES (FY10)</td>
<td></td>
</tr>
<tr>
<td>8-b. Increase % of TL faculty submitting external proposals as PI (~57% in 2009-10 FY)</td>
<td>YES</td>
<td>65% of faculty with university-sponsored release time for scholarship served as PI on external proposal or had significant funding carry over in FY 11 (Table B-1)</td>
</tr>
<tr>
<td>8-c. Increase trajectory of external proposals (i.e., ↑ median size and ↑ % with IDC)</td>
<td>No/Yes</td>
<td>• Median size of funded grants decreased in FY11 and remains short of 2012 goal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Median size of external proposals increased in FY11 ($14K vs. $10K)</td>
</tr>
<tr>
<td>9. Continue assessment of scholarship outcomes from funded graduate assistants and matching of graduate assistantships with scholarly faculty</td>
<td>YES</td>
<td>Assessment forwarded by departments in December 2010; Modest reallocations made; analyses of data ongoing</td>
</tr>
<tr>
<td>10. Complete self-study for pending departmental external review (FIFWG)</td>
<td>YES</td>
<td>Report completed fall 2010; External Reviewer site visit completed December 2010; Report submitted in Spring 2011</td>
</tr>
<tr>
<td>11. Consideration of External Reviewer Report recommendations (SPES)</td>
<td>YES</td>
<td>School response report filed with Dean and forwarded to Provost. Actions items are underway</td>
</tr>
<tr>
<td>12. Continue preparation for accreditation site visit for SON – Fall 2010.</td>
<td>YES</td>
<td>Accreditation site visit completed fall 2010 and 10 year re-accreditation granted</td>
</tr>
<tr>
<td>13. New Program proposals to ICHE (Fall 2010): Construction Management (DOT – undergraduate)</td>
<td>YES</td>
<td>Program approved by ICHE – Fall 2010</td>
</tr>
<tr>
<td>14. Continue development of joint graduate program in Quality Process Management (DOT &amp; MCOB)</td>
<td>NO</td>
<td>Unable to hire appropriately qualified faculty in DOT; Discussions with MCOB ongoing</td>
</tr>
<tr>
<td>15-a. Preparation for NCATE accreditation (DOT, DFCS, SPES)</td>
<td>YES</td>
<td>SPA Reviews all Positive; NCATE Site Visit resulted in reaccreditation for all programs</td>
</tr>
<tr>
<td>15-c. Immersive and experiential learning opportunities</td>
<td>YES</td>
<td>Increases in number of projects and student/faculty engagement</td>
</tr>
</tbody>
</table>
APPENDIX A – Selected CAST Demographics

Figure A-1: CAST trend for student credit hours - last 9 years
Figure A-2: CAST departmental comparison of student credit hours - last 9 years
Figure A-3: CAST trend for declared undergraduate and graduate majors - last 7 years
Figure A-4: CAST departmental data for declared undergrad/graduate majors - last 7 years
Figure A-5: CAST external credentialing pass rates AY 2010-2011
Figure A-6: Tenure-line faculty trend in CAST 1997-2010
Figure A-7: CAST faculty proportions AY 2010-2011
Figure A-1: CAST student credit hours - last 9 years

CAST 27% growth in past 9 yrs; 6% growth in past yr; Source: AAIR June 2010 Report

Figure A-2: CAST departmental comparison of student credit hours - last 9 years

Source: AAIR June 2010 Report

DFCS = Family and Consumer Sciences; DOT = Technology; SON = Nursing; SPESES = Physical Education, Sport, and Exercise Science; DMS = Military Science; FIWG = Fisher Institute for Wellness and Gerontology
Figure A-3: CAST trend for declared undergraduate and graduate majors - last 7 years

CAST Growth 35% in past 7 yrs
UG = Undergraduate; G = Graduate
Source: AAIR June 2010 Report

Figure A-4: CAST departmental data for declared undergrad/graduate majors - last 7 years

UG = Undergraduate; G = Graduate
DFCS = Family and Consumer Sciences; DOT = Technology; SON = Nursing; SPESES = Physical Education, Sport, and Exercise Science; FIWG = Fisher Institute for Wellness and Gerontology
Source: AAIR June 2010 Report
Figure A-5: CAST National Credentialing Pass Rates AY 2010-11

- **CAM** = Certified Apartment Manager (DFCS Residential Property Management Program)
- **NALP** = National Apartment Leasing Professional (DFCS Residential Property Management Program)
- **NREDB** = National Registration Exam for Dietitians (Ball State BS graduates)
- **NREDI** = National Registration Exam for Dietitians (Ball State Internship program)
- **NCLEX** = National Council Licensure Exam (School of Nursing)
- **CSCS** = National Strength and Conditioning Association’s Certified Strength and Conditioning Specialist (SPESES – Sports Performance Program)
- **NATA** = National Athletic Training Association’s certification exam (SPESES – Athletic Training Education Program)
- **PRAXIS II** = Licensure exams for:
  i. Physical Education Teacher Education (SPESES)
  ii. Technology Teacher Education (DOT)
  iii. Family and Consumer Science Education (DFCS)
Figure A-6: Tenure-line faculty trend in CAST 1997-2010

Figure A-7: CAST Faculty proportions for 2010-11 AY

DFCS = Family and Consumer Sciences; DOT = Technology; SON = Nursing; SPESES = Physical Education, Sport, and Exercise Science; FIWG = Fisher Institute for Wellness and Gerontology
APPENDIX B – CAST Scholarship Summary Data

Table B-1: CAST 2010-11 RTE Ratios for Scholarship
Table B-2: CAST External Funding SCORECARD (BSU Strategic Plan metrics)
Figure B-1: CAST External Funding Progress (Strategic Plan 2007-2012)
Table B-3: CAST External Funding Summary by Department
Figure B-2: CAST 3 YR Trends for Scholarship (RTERs)
Figure B-3: Departmental 3 YR Trends for Scholarly Writing (RTERs)
Figure B-4: Departmental 3 YR Trends for Scholarly Presentations (RTERs)
Figure B-5: Departmental 3 YR Trends for External Proposals (RTERs)
Table B-4: Summary of CAST External Funding by Department (Submissions)
Table B-5: Summary of CAST External Funding by Department (Funded Proposals)
Table B-1: CAST FY 2011 RTE Ratio Summaries by Department

Minimal Scholarship Expectation is RTE = 1.0

### CAST Articles/Textbooks/Creative End.

<table>
<thead>
<tr>
<th>Dept</th>
<th>RTE</th>
<th>Articles</th>
<th>All Writing RTE</th>
<th>RTE ratio</th>
<th>% Faculty*</th>
<th>% Faculty**</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFCS</td>
<td>11.5</td>
<td>12</td>
<td>13</td>
<td>1.13</td>
<td>42.0%</td>
<td>42.0%</td>
</tr>
<tr>
<td>SON</td>
<td>4.5</td>
<td>16</td>
<td>20</td>
<td>4.44</td>
<td>80.0%</td>
<td>80.0%</td>
</tr>
<tr>
<td>DOT</td>
<td>9.5</td>
<td>31</td>
<td>32</td>
<td>3.37</td>
<td>90.0%</td>
<td>90.0%</td>
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<tr>
<td>SPESES</td>
<td>23.5</td>
<td>89</td>
<td>106</td>
<td>4.51</td>
<td>90.0%</td>
<td>90.0%</td>
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<tr>
<td>FIWG</td>
<td>4</td>
<td>3</td>
<td>7</td>
<td>1.75</td>
<td>67.0%</td>
<td>67.0%</td>
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</tbody>
</table>

Totals 53.0 151 178 3.36 76.0%

* % of those with RT with refereed article (lead, or co-author)

** % of those with RT with refereed article or textbook, chapter (lead, or co-author)

### CAST Presentations

<table>
<thead>
<tr>
<th>Dept</th>
<th>RTE</th>
<th># Nat/Inter</th>
<th>RTE Ratio*</th>
<th>% Nat/Inter</th>
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<tbody>
<tr>
<td>DFCS</td>
<td>11.5</td>
<td>51</td>
<td>24</td>
<td>2.09</td>
</tr>
<tr>
<td>SON</td>
<td>4.5</td>
<td>42</td>
<td>18</td>
<td>4.00</td>
</tr>
<tr>
<td>DOT</td>
<td>9.5</td>
<td>40</td>
<td>28</td>
<td>2.95</td>
</tr>
<tr>
<td>SPESES</td>
<td>23.5</td>
<td>110</td>
<td>96</td>
<td>4.09</td>
</tr>
<tr>
<td>FIWG</td>
<td>4</td>
<td>9</td>
<td>9</td>
<td>2.25</td>
</tr>
</tbody>
</table>

Totals 53.0 252 175 3.30 69.4%

* National/International Presentations

### CAST External Proposals

<table>
<thead>
<tr>
<th>Dept</th>
<th>RTE</th>
<th># Funded</th>
<th>RTE ratio</th>
<th>% Faculty*</th>
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<tr>
<td>DFCS</td>
<td>11.5</td>
<td>12</td>
<td>6</td>
<td>1.04</td>
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<tr>
<td>SON</td>
<td>4.5</td>
<td>5</td>
<td>1</td>
<td>1.11</td>
</tr>
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<td>DOT</td>
<td>9.5</td>
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<td>1.23</td>
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<tr>
<td>FIWG</td>
<td>4</td>
<td>5</td>
<td>3</td>
<td>1.25</td>
</tr>
</tbody>
</table>

Totals 53.0 62 31 1.17 65.0%

* % of those with RT that were PI on external proposal in FY 10, or had significant funding carry over
Table B-2: CAST External Funding SCORECARD (BSU Strategic Plan metrics)

<table>
<thead>
<tr>
<th>Metric</th>
<th>FY 2007 Baseline</th>
<th>FY 2008</th>
<th>FY 2009</th>
<th>FY 2010</th>
<th>FY 2011**</th>
<th>% of Goal</th>
<th>2012 Goal*</th>
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</thead>
<tbody>
<tr>
<td>External Funding</td>
<td>$680,412</td>
<td>$1,800,836</td>
<td>$1,763,742</td>
<td>$1,999,939</td>
<td>$958,730</td>
<td>56%</td>
<td>$1,701,030</td>
</tr>
<tr>
<td>Median $</td>
<td>$3,000</td>
<td>$16,000</td>
<td>$5,000</td>
<td>$4,068</td>
<td>$2,500</td>
<td>33%</td>
<td>$7,500</td>
</tr>
<tr>
<td>Submitted Proposals</td>
<td>36</td>
<td>53</td>
<td>67</td>
<td>71</td>
<td>62</td>
<td>122%</td>
<td>51</td>
</tr>
<tr>
<td>Faculty PIs</td>
<td>27</td>
<td>40</td>
<td>43</td>
<td>40</td>
<td>34</td>
<td>83%</td>
<td>41</td>
</tr>
</tbody>
</table>

* Ball State Strategic Plan Goals: ↑ external funding ~ 150%; ↑ ext proposals ~ 40%; ↑ faculty submitting ext proposals ~ 50%; ↑ median size of grants ~ 150%
** 8 fewer tenure-line faculty with scholarly release time within CAST during FY 11

Figure B-1: External funding relative to Strategic Plan goal of $1.7 million.

Goal is expressed as linear increase across the 5 year plan
Multi-year grant awards are reflected as actual funding in a given year
<table>
<thead>
<tr>
<th>Department (N with SRT)</th>
<th>AY 2010-11 RTEs</th>
<th>Proposal Submissions FY 2011</th>
<th>Funded Proposals FY 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># Submitted</td>
<td># With IDC</td>
<td>Median Size ($)</td>
</tr>
<tr>
<td></td>
<td># Requested Funds ($)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td># Funded</td>
<td># With IDC</td>
<td>Total FY11 Funding ($)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Median Size ($)</td>
</tr>
<tr>
<td>DFCS (12)</td>
<td>11.5</td>
<td>12</td>
<td>6</td>
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<tr>
<td></td>
<td></td>
<td>4</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
<td>$483,622</td>
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<td></td>
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<td>SON (5)</td>
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<td>1</td>
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<td></td>
<td>1</td>
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<td>$896,803</td>
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<td></td>
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<td>$7,488</td>
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<td>$1,528,198</td>
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<td>SPESES (19)</td>
<td>23.5</td>
<td>29</td>
<td>16</td>
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<td></td>
<td></td>
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</tr>
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<td></td>
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<td>$7,500</td>
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<td>FIWG (3)</td>
<td>4.0</td>
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<td></td>
<td>5</td>
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<td>$1,101,825</td>
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<td>$230,038</td>
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<td>CAST (49)</td>
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<td>62</td>
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<td></td>
<td></td>
<td>26</td>
<td>9</td>
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<tr>
<td></td>
<td></td>
<td>$10,422,615</td>
<td>$958,730</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(42%)</td>
<td>(29%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$14,070</td>
<td>$2,500</td>
</tr>
</tbody>
</table>

* Funding for multi-year grants includes only the amounts paid during FY 11

SRT = scholarship release time; RTE = Release Time Equivalent
Figure B-2: CAST 3 YR RTE Ratio trends for Scholarly Writing, Presentations and External Proposals

Scholarly Writing includes refereed articles and textbooks
Scholarly Presentations includes refereed/invited national or international
External proposals includes those officially submitted through SPO for respective FY

Figure B-3: Departmental 3 YR RTE Ratio trends for Scholarly Writing*

*Scholarly Writing includes refereed articles and textbooks
DFCS = Family and Consumer Sciences; DOT = Technology; SON = Nursing; SPESES = Physical Education, Sport, and Exercise Science; FIWG = Fisher Institute for Wellness and Gerontology
CAST - 2010-11 Annual Report
Ball State University

College of Applied Sciences and Technology - CAST

Mitch Whaley, Dean
Jack Wescott, Associate Dean

Department of Family and Consumer Sciences – DFCS

Jay Kandiah, Chairperson

Department of Technology – DOT

Ray Shackelford, Chairperson

Department of Military Science – MS

LTC Steven Hibler, Chairperson

Fisher Institute for Wellness and Gerontology - FIFWG

Kathy Segrast, Interim - Director

School of Nursing – SON

Linda Siktberg, Director

School of Physical Education, Sport, and Exercise Science - SPESES

Tom Weidner, Chairperson
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- **FISHER INSTITUTE FOR WELLNESS AND GERONTOLOGY (FIWG)**
- **SCHOOL OF NURSING (SON)**
- **SCHOOL OF PHYSICAL EDUCATION, SPORT, AND EXERCISE SCIENCE (SPESES)**
CAST: 2010-2011 Annual Report - Overview

Key Strengths/Accomplishments of CAST – 2010-11

1. **Continued Popular and Strong Academic Programs** (see Appendix A)
   
a. Significant growth in student credit hours generated by CAST programs
   
i. 6% ↑ in past year; 27% ↑ across last 9 yrs (Figure A-1)
   
ii. Departmental data (Figure A-2)

b. Significant growth in students selecting CAST majors
   
i. 35% ↑ across last 7 yrs (Figure A3)
   
ii. Departmental data (Figure A-4)

c. Successful student certification/licensing outcomes in 2010-11 (Figure A-5)
   
i. Exceeded "National Averages" for 9 of 10 credentialing exams across college
   
ii. 100% pass rates on 6 of 10 national exams

d. Accreditation/Reaccreditation in 2010-11
   
i. NCATE Reaccreditation of teacher education programs (DFCS, DOT & SPESES)
   
ii. School of Nursing baccalaureate and master’s programs reaccredited by CCNE through 2021
   
iii. Doctorate in Nursing Practice received "approval" from the Higher Learning Commission with no conditions
   
iv. Manufacturing Engineering Technology program (DOT) reaccredited by Technology Accreditation Commission of Accreditation Boards for Engineering and Technology (TAC/ABET)
   
v. Undergraduate Exercise Science program was again “Recognized” by the National Strength and Conditioning Association through 2012.

   e. 33 unique immersive learning projects in CAST, involving 493 students and 47 faculty (all significant increases over 2009-10)

   f. Pervasive experiential learning culture within CAST academic programs

2. **New Academic Programs Submitted – Approved by BSU BOT/ICHE**

   a. The Indiana Commission for Higher Education approved new undergraduate major in Construction Management effective fall 2010 (DOT)

3. **$1,888,487 in gifts to CAST Foundation accounts for FY 2011**

   a. 141 scholarship awards from 56 funds totaling $208,814

4. **Faculty/Student Scholarship** (see Appendix B)

   a. CAST RTE Ratios for Refereed Writing (3.36), National Presentations (3.30), and External Grant submissions (1.17), all exceeded CAST expectation of 1.0 (Table B-1)

   b. All Departments exceeded RTE 1.0 in each of the 3 categories (Table B-1)

   c. CAST Scholarship Ratios improved across the past 3 years (Figure B-2)

---

1. AAIR Fall 2010 report
d. 151 refereed journal articles published (↑ over 111 from last year) (Table B-1)
   i. ↑ proportion of faculty with release time publishing refereed scholarship compared to last year (76% vs. 69%)

e. 27 textbooks & chapters (similar to 30 last year)

f. 252 refereed/invited presentations (Table B-1)
   i. 69% national/international scope (73% last yr)

g. Decline in external grant funding in FY11 compared to FY10 (Tables B-2 & B-3)
   i. Exceeded Strategic Plan goal of ↑ 150% funding in 3 of last 4 years (Table B-2)
   ii. ↑ external funding requests over last year ($10,379,265 vs. $6,590,198)

h. Increase in percentage of external proposals that included indirect costs compared to last year (42% vs. 32%)

i. Increase in percentage of faculty with scholarly release time that submitted new proposal as PI or had significant multi-year external funding carry forward (65% FY11 vs. 57% FY10)

j. Exceeded Strategic Plan goal of 40% ↑ in external proposals in each of last 4 years (Table B-2)

k. Decline in median size of funded grants compared to previous years; remain short of 2012 goal (Table B-2 & B-3)
   i. ↑ median “proposal” size over last year ($14,070 vs. $10,000)

5. Faculty Engagement in National Professional Leadership
   • Carla Farhart - Board Member, Housing Education and Research Association (DFCS)
   • David Haber - Fellow, Gerontological Society of America (FIWG)
   • David Haber - Expert Panel Member, Centers for Disease Control and Prevention (FIWG)
   • Scott Hall - Treasurer of the Family Science Association (DFCS)
   • Larry Judge - Chairman, AAPAR, Council for Facilities and Equipment (SPESES)
   • Larry Judge - Past-President, National Council on Accreditation for Coaching Education (SPESES)
   • Leonard Kaminsky – American Heart Association, Nutrition, Physical Activity & Metabolism Council (SPESES)
   • Rex Kana - Treasurer, Society of Plastics Engineering, Rotational Molding Division (DOT)
   • Hans Kellogg – President-Elect, International Graphic Arts Education Association (DOT)
   • Beth Kelsey – Board of Directors, National Association of Nurse Practitioners in Women’s Health (SON)
   • Cindy Miller - President elect, Association of Home Equipment Educators (DFCS)
   • Carol Reed – Vice President of SEI Corporation, Scuba Educators International, Inc. (SPESES)
   • Kathy Segrist - American Society on Aging, Board of Directors Member (FIWG)
   • Kathy Segrist - Gerontology in Higher Education, Executive Committee (FIWG)
   • Richard Seymour - 2007-2010 President, Council for Technology Teacher Education (DOT)
   • Richard Seymour - International Technology and Engineering Educators Association Board of Directors (DOT)
   • He Wang – National Institutes of Health, Risk Prevention and Health Behavior Study Section (SPESES)
   • Baijian Yang – Present, Electrical, Electronics & Computer Technology Division of the Association of Technology, Management, and Applied Engineering (DOT)

6. Faculty Engagement on Refereed Journal Editorial Boards
   • Rebecca Adams - Family and Consumer Sciences Research Journal (DFCS)
   • Nagla Ali - Cancer Nursing & American Journal of Health Behavior (SON)
   • Lindsey Blom - Journal of Coaching Education (SPESES)
   • Clark Dickin - World Journal of Orthopedics (SPESES)
   • Carla Farhart - Housing Education and Research Association (DFCS)
• James Flowers - Journal of Industrial Teacher Education (DOT)
• David Haber – (FIWG)
  • Journal of Applied Gerontology
  • Journal of Family and Community Health
  • Journal of Gerontology & Geriatrics Education
• Scott Hall – Family Science Review (DFCS)
• Kay Hodson Carlton - Nurse Educator (SON)
• Lawrence Judge – (SPESES)
  • The Physical Educator
  • Techniques Magazine
• Lisa Lutte - Athletic Training Education Journal (SPESES)
• Jay Kandiah - Family and Consumer Sciences Research Journal (DFCS)
• Leonard Kaminsky – (SPESES)
  • Journal of Cardiopulmonary Rehabilitation
  • American College of Sports Medicine Health/Fitness Journal
• Thelma Lazo-Flores - International Journal for the Science of Design (DFCS)
• Anthony Mahon – (SPESES)
  • Pediatric Exercise Science
  • Research in Sports Medicine
• David Pearson – (SPESES)
  • Journal of Strength and Conditioning Research
  • National Strength and Conditioning
• Mary Annette Rose - The Technology Teacher (DOT)
• Alice Spangler - Family and Consumer Sciences Research Journal (DFCS)
• Scott Trappe – (SPESES)
  • Medicine and Science in Sports and Exercise
  • Journal of Applied Physiology
• Stacy Walker - Athletic Training Education Journal (SPESES)
• Thomas Weidner – (SPESES)
  • Journal of Athletic Training
  • Athletic Training Education Journal
• Mitchell Whaley – International Journal of Applied Sport Sciences (SPESES)
• Bailian Yang - International Journal of Intelligent Computing and Cybernetics (DOT)

7. Faculty/Student Honors and Awards

FACULTY - National

• Scott Hall – Outstanding Reviewer 2010, Journal of Family and Economic Issues (DFCS)
• Jay Kandiah - American Association of Family and Consumer Sciences - Leadership Award 2010 (DFCS)
• Jay Kandiah – Dietetic Educators and Practitioners Practice Group – Outstanding Educator Award 2010 (DFCS)
• Tarek Mahfouz – Outstanding Reviewer 2010 – American Association for Civil Engineers (DOT)
• Thomas Weidner - National Athletic Trainer's Association Foundation Medal for Distinguished Athletic Training Research (SPESES)
• Thomas Weidner - Indiana Athletic Trainers Association Hall of Fame (SPESES)

FACULTY – Ball State University

• Mathew Harper – Outstanding Junior Faculty Award 2010 (SPESES)
• Marilyn Ryan – Outstanding Faculty Advisor Award 2010 (SON)

STUDENTS – National Awards/Competitions

• Krystal Harper, Top 2% nationally in Army Physical Fitness Test (MS-ROTC)
• Kenneth Lahrman, George C. Marshall Award (MS-ROTC)
• Shane Govert, Graphic Arts Management program, won the Gold medal in the Post secondary division of the Skills USA Graphics Commendations competition, November 2010; Faculty Advisor: Tom Spotts (DOT)
• Wade Thatcher, Elected President from the Technology Education and Engineering Collegiate Association for 2010-11 (DOT)
• Wade Thatcher, 2011 TECA Award of Distinction from the International Technology Education and Engineering Collegiate Association; Faculty Advisor: Richard Seymour (DOT)
• Construction Management students (Alex Beasley, Edwin Frieden, Austin Hart, Michael Key, Ben Lamm, and Andrew Williams) – 1st Place nationally in Concrete Solutions Competition, American Schools of Construction, Reno, Nevada Regional Conference/Competitions, February, 2011; Faculty Advisor: Janet Fick; (DOT)
• Technology Education students (Taylor Orr, Brian Hunt, Quintin Quigley, and Chris Townsend) – 1st place in the TECA Technology Challenge at International Technology & Engineering Educators Association, Oct 2011; Faculty Advisor: Richard Seymour; (DOT)
• Sport Administration graduate students (Andrew Tuke, Kelly Diamond, Elizabeth Wanless, and David Hanley) – 3rd place nationally in Case Study Competition, College Sports Research Institute Conference, April 2011; Faculty Advisors: Larry Judge & David Pierce; (SPESES)

8. Scholarship Revenue from Department of Defense for Military Science
• > $300,000 funding for tuition for cadets in ROTC Program
9. Key Challenges for CAST – 2011 and beyond

1. Faculty demographics (only ~ 50% of full time faculty are tenure-line) (Figure A-6)
2. Solidify academic leadership position (FIWG)
3. Faculty merit systems within the college
4. More fully engage faculty with external funding goals within BSU Strategic Plan
5. Support of faculty scholarship with graduate assistantships (analyses ongoing)
6. Faculty retention: salary compression in regular and contract faculty positions within some departments of the college
7. Continue momentum in CAST fund raising activities
8. More fully engage faculty with a culture of assessment requisite for NCA
9. Renovation and Applied Technology Building (DFCS, DOT)
10. Continued funding of service/maintenance contracts for equipment and high end technology used within research and educational laboratories (~ $150,000 annually)
11. Maintaining external clinical sites supporting accredited programs (DFCS, DOT, SON, SPESES)
12. Complete implementation of Digital Measures™ faculty activity software within CAST

10. Key Plans/Initiatives for CAST 2010-2011

1. Continue to execute plans to increase number and proportion of tenure-line faculty in college (8 new tenure-track hires for AY 2011-12)
2. Hire new director for FIWG
3. Continue assessment of "faculty-driven" departmental merit evaluation systems within the college
4. Improve key external funding metrics (Appendix B)
   a. ↑ overall external funding
   b. ↑ proportion of CAST faculty\(^2\) that submit significant external funding proposals
   c. ↑ trajectory of external proposals (i.e., ↑ median size and ↑ % with IDC)
   d. ↑ proportion of CAST faculty\(^2\) that have funded external proposals
5. Continue assessment of scholarship outcomes from graduate assistants\(^\text{3}\) and matching of graduate assistantships with scholarly faculty
6. Provide department chairs and key faculty professional development opportunities in fund raising (relates to #7 and #10 above)
7. Continue developing assessment infrastructure for student and program outcomes
8. Continue emphasis on:
   a. Faculty development for enhanced teaching and scholarship
   b. Immersive and experiential learning opportunities
   c. Innovative use of technology in education settings
   d. Development of strategic partnerships

\(^2\) faculty that have university-funded scholarly release time during academic year
\(^3\) GAs funded from university general fund budget
11. Progress on CAST Initiatives identified last year (CAST Annual Report 2009-2010)

- Significant Progress or Completion of 15 of 18 initiatives from last year

<table>
<thead>
<tr>
<th>Initiative</th>
<th>Progress</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Devise plans to deliver instruction for growing college in light of budget reductions</td>
<td>YES</td>
<td>College plans for $192k reduction for 2010-12 forwarded to Provost – November 2010; Plans are achievable</td>
</tr>
<tr>
<td>2. Continue developing assessment infrastructure for student and program outcomes</td>
<td>YES</td>
<td>Fully implemented within all departments within CAST</td>
</tr>
<tr>
<td>3. Continue developing assessment infrastructure for student and program outcomes</td>
<td>YES</td>
<td>Associate Dean Wescott serving on University Assessment Committee; Departments actively collecting and archiving assessment data in Digital Repository and R-Grade</td>
</tr>
<tr>
<td>4. Assessment of “faculty-driven” departmental merit evaluation systems within the college</td>
<td>YES</td>
<td>College retreat (June 2010) with follow up departmental committee meetings (Fall 2010);</td>
</tr>
<tr>
<td>5. Execute plans to increase number and proportion of tenure-line faculty in college</td>
<td>YES</td>
<td>9 tenure-track faculty hired within the college – to begin 2011-12 AY</td>
</tr>
<tr>
<td>6. Increase proportion of tenure-line faculty publishing refereed scholarship (69% in 2009-2010)</td>
<td>YES</td>
<td>75% of faculty with university-sponsored release time authored refereed articles</td>
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<tr>
<td>7. Increase proportion of tenure-line faculty meeting CAST release time expectations (70% in 2009-10)</td>
<td>YES</td>
<td>75% of CAST faculty receiving scholarly release time met the minimal expectations set forth in CAST Assigned Time Guidelines for Scholarly Productivity</td>
</tr>
<tr>
<td>8-a. Increase external funding to 2012 Goal of $1.7 million</td>
<td>NO (FY11)</td>
<td>• External funding for FY11 decreased from FY10; however, Strategic Plan Goal of ≥ 150% has been achieved in 3 of last 4 FYs (Figure B-1)</td>
</tr>
<tr>
<td>8-a. Increase external funding to 2012 Goal of $1.7 million</td>
<td>YES (FY08)</td>
<td>• Increase in funding requested in external proposals in FY11 $10.3 million vs. $6.6 million</td>
</tr>
<tr>
<td>8-a. Increase external funding to 2012 Goal of $1.7 million</td>
<td>YES (FY09)</td>
<td></td>
</tr>
<tr>
<td>8-a. Increase external funding to 2012 Goal of $1.7 million</td>
<td>YES (FY10)</td>
<td></td>
</tr>
<tr>
<td>8-b. Increase % of TL faculty submitting external proposals as PI (~ 57% in 2009-10 FY)</td>
<td>YES</td>
<td>65% of faculty with university-sponsored release time for scholarship served as PI on external proposal or had significant funding carry over in FY 11 (Table B-1)</td>
</tr>
<tr>
<td>8-c. Increase trajectory of external proposals (i.e., ↑ median size and ↑ % with IDC)</td>
<td>No/Yes</td>
<td>• Median size of funded grants decreased in FY11 and remains short of 2012 goal</td>
</tr>
<tr>
<td>8-c. Increase trajectory of external proposals (i.e., ↑ median size and ↑ % with IDC)</td>
<td></td>
<td>• Median size of external proposals increased in FY11 ($14K vs. $10K)</td>
</tr>
<tr>
<td>9. Continue assessment of scholarship outcomes from funded graduate assistants and matching of graduate assistantships with scholarly faculty</td>
<td>YES</td>
<td>Assessment forwarded by departments in December 2010; Modest reallocations made; analyses of data ongoing</td>
</tr>
<tr>
<td>10. Complete self-study for pending departmental external review (FIFWG)</td>
<td>YES</td>
<td>Report completed fall 2010; External Reviewer site visit completed December 2010; Report submitted in Spring 2011</td>
</tr>
<tr>
<td>11. Consideration of External Reviewer Report recommendations (SPES)</td>
<td>YES</td>
<td>School response report filed with Dean and forwarded to Provost. Actions items are underway</td>
</tr>
<tr>
<td>12. Continue preparation for accreditation site visit for SON – Fall 2010.</td>
<td>YES</td>
<td>Accreditation site visit completed fall 2010 and 10 year re-accreditation granted</td>
</tr>
<tr>
<td>13. New Program proposals to ICHE (Fall 2010): Construction Management (DOT – undergraduate)</td>
<td>YES</td>
<td>Program approved by ICHE – Fall 2010</td>
</tr>
<tr>
<td>14. Continue development of joint graduate program in Quality Process Management (DOT &amp; MCOB)</td>
<td>NO</td>
<td>Unable to hire appropriately qualified faculty in DOT; Discussions with MCOB ongoing</td>
</tr>
<tr>
<td>15-a. Preparation for NCATE accreditation (DOT, DFCS, SPES)</td>
<td>YES</td>
<td>SPA Reviews all Positive, NCATE Site Visit resulted in reaccreditation for all programs</td>
</tr>
<tr>
<td>15-c. Immersive and experiential learning opportunities</td>
<td>YES</td>
<td>Increases in number of projects and student/faculty engagement</td>
</tr>
</tbody>
</table>
APPENDIX A – Selected CAST Demographics

Figure A-1: CAST trend for student credit hours - last 9 years
Figure A-2: CAST departmental comparison of student credit hours - last 9 years
Figure A-3: CAST trend for declared undergraduate and graduate majors - last 7 years
Figure A-4: CAST departmental data for declared undergrad/graduate majors - last 7 years
Figure A-5: CAST external credentialing pass rates AY 2010-2011
Figure A-6: Tenure-line faculty trend in CAST 1997-2010
Figure A-7: CAST faculty proportions AY 2010-2011
Figure A-1: CAST student credit hours - last 9 years

CAST 27% growth in past 9 yrs; 6% growth in past yr; Source: AAIR June 2010 Report

Figure A-2: CAST departmental comparison of student credit hours - last 9 years

Source: AAIR June 2010 Report

DFCS = Family and Consumer Sciences; DOT = Technology; SON = Nursing; SPESES = Physical Education, Sport, and Exercise Science; DMS = Military Science; FIWG = Fisher Institute for Wellness and Gerontology
Figure A-3: CAST trend for declared undergraduate and graduate majors - last 7 years

CAST Growth 35% in past 7 yrs
UG = Undergraduate; G = Graduate
Source: AAIR June 2010 Report

Figure A-4: CAST departmental data for declared undergrad/graduate majors - last 7 years

UG = Undergraduate; G = Graduate
DFCS = Family and Consumer Sciences; DOT = Technology; SON = Nursing; SPESES = Physical Education, Sport, and Exercise Science;
FIWG = Fisher Institute for Wellness and Gerontology
Source: AAIR June 2010 Report
Figure A-5: CAST National Credentialing Pass Rates AY 2010-11

- CAM = Certified Apartment Manager (DFCS Residential Property Management Program)
- NALP = National Apartment Leasing Professional (DFCS Residential Property Management Program)
- NREDB = National Registration Exam for Dietitians (Ball State BS graduates)
- NREDI = National Registration Exam for Dietitians (Ball State Internship program)
- NCLEX = National Council Licensure Exam (School of Nursing)
- CSCS = National Strength and Conditioning Association's Certified Strength and Conditioning Specialist (SPESES - Sports Performance Program)
- NATA = National Athletic Training Association's certification exam (SPESES - Athletic Training Education Program)
- PRAXIS II = Licensure exams for:
  i. Physical Education Teacher Education (SPESES)
  ii. Technology Teacher Education (DOT)
  iii. Family and Consumer Science Education (DFCS)
Figure A-6: Tenure-line faculty trend in CAST 1997-2010

Figure A-7: CAST Faculty proportions for 2010-11 AY

DFCS = Family and Consumer Sciences; DOT = Technology; SON = Nursing; SPESES = Physical Education, Sport, and Exercise Science; FIWG = Fisher Institute for Wellness and Gerontology
APPENDIX B – CAST Scholarship Summary Data

Table B-1: CAST 2010-11 RTE Ratios for Scholarship
Table B-2: CAST External Funding SCORECARD (BSU Strategic Plan metrics)
Figure B-1: CAST External Funding Progress (Strategic Plan 2007-2012)
Table B-3: CAST External Funding Summary by Department
Figure B-2: CAST 3 YR Trends for Scholarship (RTERs)
Figure B-3: Departmental 3 YR Trends for Scholarly Writing (RTERs)
Figure B-4: Departmental 3 YR Trends for Scholarly Presentations (RTERs)
Figure B-5: Departmental 3 YR Trends for External Proposals (RTERs)
Table B-4: Summary of CAST External Funding by Department (Submissions)
Table B-5: Summary of CAST External Funding by Department (Funded Proposals)
### Table B-1: CAST FY 2011 RTE Ratio Summaries by Department

**Minimal Scholarship Expectation is RTE = 1.0**

#### CAST Articles/Textbooks/Creative End.

<table>
<thead>
<tr>
<th>Dept</th>
<th>RTE</th>
<th>Articles</th>
<th>All Writing</th>
<th>RTE ratio</th>
<th>% Faculty*</th>
<th>% Faculty**</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFC</td>
<td>11.5</td>
<td>12</td>
<td>13</td>
<td>1.13</td>
<td>42.0%</td>
<td>42.0%</td>
</tr>
<tr>
<td>SON</td>
<td>4.5</td>
<td>16</td>
<td>20</td>
<td>4.44</td>
<td>80.0%</td>
<td>80.0%</td>
</tr>
<tr>
<td>DOT</td>
<td>9.5</td>
<td>31</td>
<td>32</td>
<td>3.37</td>
<td>90.0%</td>
<td>90.0%</td>
</tr>
<tr>
<td>SPESES</td>
<td>23.5</td>
<td>89</td>
<td>106</td>
<td>4.51</td>
<td>90.0%</td>
<td>90.0%</td>
</tr>
<tr>
<td>FIWG</td>
<td>4</td>
<td>3</td>
<td>7</td>
<td>1.75</td>
<td>67.0%</td>
<td>67.0%</td>
</tr>
</tbody>
</table>

Totals 53.0 151 178 3.36 76.0%

* % of those with RT with refereed article (lead, or co-author)
** % of those with RT with refereed article or textbook, chapter (lead, or co-author)

#### CAST Presentations

<table>
<thead>
<tr>
<th>Dept</th>
<th>RTE</th>
<th># Nat/Inter</th>
<th>RTE Ratio*</th>
<th>% Nat/Inter</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFC</td>
<td>11.5</td>
<td>51</td>
<td>24</td>
<td>2.09</td>
</tr>
<tr>
<td>SON</td>
<td>4.5</td>
<td>42</td>
<td>18</td>
<td>4.00</td>
</tr>
<tr>
<td>DOT</td>
<td>9.5</td>
<td>40</td>
<td>28</td>
<td>2.95</td>
</tr>
<tr>
<td>SPESES</td>
<td>23.5</td>
<td>110</td>
<td>96</td>
<td>4.09</td>
</tr>
<tr>
<td>FIWG</td>
<td>4</td>
<td>9</td>
<td>9</td>
<td>2.25</td>
</tr>
</tbody>
</table>

Totals 53.0 252 175 3.30 69.4%

* National/International Presentations

#### CAST External Proposals

<table>
<thead>
<tr>
<th>Dept</th>
<th>RTE</th>
<th># Funded</th>
<th>RTE ratio</th>
<th>% Faculty*</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFC</td>
<td>11.5</td>
<td>12</td>
<td>6</td>
<td>1.04</td>
</tr>
<tr>
<td>SON</td>
<td>4.5</td>
<td>5</td>
<td>1</td>
<td>1.11</td>
</tr>
<tr>
<td>DOT</td>
<td>9.5</td>
<td>11</td>
<td>5</td>
<td>1.16</td>
</tr>
<tr>
<td>SPESES</td>
<td>23.5</td>
<td>29</td>
<td>16</td>
<td>1.23</td>
</tr>
<tr>
<td>FIWG</td>
<td>4.0</td>
<td>5</td>
<td>3</td>
<td>1.25</td>
</tr>
</tbody>
</table>

Totals 53.0 62 31 1.17 65.0%

* % of those with RT that were PI on external proposal in FY 10, or had significant funding carry over
Table B-2: CAST External Funding SCORECARD (BSU Strategic Plan metrics)

<table>
<thead>
<tr>
<th>Metric</th>
<th>FY 2007 Baseline</th>
<th>FY 2008</th>
<th>FY 2009</th>
<th>FY 2010</th>
<th>FY 2011**</th>
<th>% of Goal</th>
<th>2012 Goal*</th>
</tr>
</thead>
<tbody>
<tr>
<td>External Funding</td>
<td>$680,412</td>
<td>$1,800,836</td>
<td>$1,763,742</td>
<td>$1,999,939</td>
<td>$958,730</td>
<td>56%</td>
<td>$1,701,030</td>
</tr>
<tr>
<td>Median $</td>
<td>$3,000</td>
<td>$16,000</td>
<td>$5,000</td>
<td>$4,068</td>
<td>$2,500</td>
<td>33%</td>
<td>$7,500</td>
</tr>
<tr>
<td>Submitted Proposals</td>
<td>36</td>
<td>53</td>
<td>67</td>
<td>71</td>
<td>62</td>
<td>122%</td>
<td>51</td>
</tr>
<tr>
<td>Faculty PIs</td>
<td>27</td>
<td>40</td>
<td>43</td>
<td>40</td>
<td>34</td>
<td>83%</td>
<td>41</td>
</tr>
</tbody>
</table>

* Ball State Strategic Plan Goals: † external funding ~ 150%; † ext proposals ~ 40%; † faculty submitting ext proposals ~ 50%; † median size of grants ~ 150%
** 8 fewer tenure-line faculty with scholarly release time within CAST during FY 11

Figure B-1: External funding relative to Strategic Plan goal of $1.7 million.
Goal is expressed as linear increase across the 5 year plan
Multi-year grant awards are reflected as actual funding in a given year
<table>
<thead>
<tr>
<th>Department</th>
<th>AY 2010-11</th>
<th># Submitted</th>
<th># With IDC</th>
<th>Median Requested Funds ($)</th>
<th>Median Funding ($)</th>
<th>Total FY11 Funding ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRCS (12)</td>
<td>11.5</td>
<td>12</td>
<td>4</td>
<td>$483,622</td>
<td>$154,913</td>
<td>$1,263,024</td>
</tr>
<tr>
<td>SON (5)</td>
<td>4.5</td>
<td>5</td>
<td>1</td>
<td>$896,803</td>
<td>$7,488</td>
<td>$1,000</td>
</tr>
<tr>
<td>DOT (10)</td>
<td>9.5</td>
<td>11</td>
<td>6</td>
<td>$1,528,198</td>
<td>$45,319</td>
<td>$7,000</td>
</tr>
<tr>
<td>SPESES (19)</td>
<td>23.5</td>
<td>29</td>
<td>10</td>
<td>$6,411,548</td>
<td>$7,500</td>
<td>$7,129,200</td>
</tr>
<tr>
<td>FIWG (3)</td>
<td>4.0</td>
<td>5</td>
<td>5</td>
<td>$1,101,825</td>
<td>$230,038</td>
<td>$2,750</td>
</tr>
<tr>
<td>CAST (49)</td>
<td>53.0</td>
<td>62</td>
<td>26</td>
<td>$10,422,615</td>
<td>$14,070</td>
<td>$958,780</td>
</tr>
</tbody>
</table>

Note: Funding for multi-year grants includes only the amounts paid during FY 11.

SRT = Scholarship Release Time; RTE = Release Time Equivalent
Figure B-2: CAST 3 YR RTE Ratio trends for Scholarly Writing, Presentations and External Proposals

Scholarly Writing includes refereed articles and textbooks
Scholarly Presentations includes refereed-invited national or international
External proposals includes those officially submitted through SPO for respective FY

Figure B-3: Departmental 3 YR RTE Ratio trends for Scholarly Writing*

*Scholarly Writing includes refereed articles and textbooks
DFCS = Family and Consumer Sciences; DOT = Technology; SON = Nursing; SPESES = Physical Education, Sport, and Exercise Science; FIWG = Fisher Institute for Wellness and Gerontology
Figure B-4: Departmental 3 YR RTE Ratio trends for Scholarly Presentations*

*Scholarly presentations includes refereed and invited presentations at the national or international level
DFCS = Family and Consumer Sciences; DOT = Technology; SON = Nursing; SPESES = Physical Education, Sport, and Exercise Science;
FIWG = Fisher Institute for Wellness and Gerontology

Figure B-5: Departmental 3 YR RTE Ratio trends for External Proposals*

*External proposals includes those officially submitted through SPO for respective FY
DFCS = Family and Consumer Sciences; DOT = Technology; SON = Nursing; SPESES = Physical Education, Sport, and Exercise Science;
FIWG = Fisher Institute for Wellness and Gerontology