

## **Definition of Unit**

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### **Reporting Year:**

2018-2019

### **Providing Department:**

School of Agriculture

### **Department/Unit Contact:**

School of Agriculture/Dennis W. Duncan

### **Mission/Vision/Goal Statement:**

School of Agriculture's Mission Statement:

Our mission is to prepare students for leadership roles in the food, fiber, and natural resource professions by providing state of the art experiential learning through agriculture. The School of Agriculture (SOA) mission statement flows from the TTU Mission Statement "to provide leadership and outstanding programs in . . . agriculture and human ecology, nursing, music, art and interdisciplinary studies." The SOA mission statement additionally supports the TTU Flight Plan to improve the undergraduate experience.

The SOA offers a Bachelor of Science degree in Agriculture focusing on one of 10 concentrations. Those concentrations span across the broad discipline of Agriculture including: Agribusiness Management, Agricultural Communications, Agricultural Education, Agricultural Engineering Technology, Agronomy and Soils, Environmental Agriscience, Animal Science/Pre-Veterinary Science, Horticulture, Nursery & Landscape Management, and Turfgrass Management.

We prepare our students to, upon graduation, enter a multitude of fields in the agricultural industry or to continue their education through graduate school. Previous graduates can be found across Tennessee and the United States in such roles as park rangers, veterinarians, golf course superintendents, government officials, business owners, county agents, conservationists, university professors, military officers, high school teachers, consultants, agricultural product/equipment sales, bankers, farm managers, landscape developers and the list continues to grow.

The School of Agriculture is blessed with two unique farms. In 1965 the Shipley Farm (300 acres) was acquired and houses the Hyder-Burks Pavilion, horticultural greenhouses, the organic farming operation, sheep, hogs, beef cattle, poultry, varied forage and row crops. Finally, in 2009, the Oakley Farm (1800+ acres) expanded the possibilities for research and teaching with access to 700 plus cows and calves with additional cropland and potential locations for greenhouses and other agricultural enterprises. These facilities are not supported by direct line

funding by the state and therefore must pay their own way, however, all facilities are dedicated to the overall educational experience of our students.

Our vision states, "We are the hallmark program of experiential education in agriculture."

## **Goal/Objective/Outcome**

### **Student Learning Outcome 1.1**

#### **Define Goal:**

Through internships, experiential learning opportunities, part-time employment and undergraduate research SOA students will recognize their career potential, practice and reflect on their skills and attributes as they relate to professional life, and improve identified need areas.

#### **Intended Outcomes / Objectives:**

SOA students are highly encouraged and in some concentrations required to complete a 10-12 week internship and/or early field experience. Additionally, students are provided a cadre of opportunities beyond the traditional classroom setting to explore interest areas, practice a craft/skill(s), and reflect on their experiences. The School uses a national assessment tool (ACAT) to determine how prepared the students are for industry and graduate school. The main objective of all SOA curriculum is to prepare students for the global workforce and provide the tools necessary to grow as an individual. Therefore, faculty and staff desire to see an increase in ACAT scores each year and to always be above the national average.

### **Student Learning Outcome 1.2**

#### **Define Goal:**

Through involvement in a cadre of club events, service learning opportunities and research projects SOA students recognize specific leadership and communication attributes necessary to be successful at TTU and industry; examine how they can strengthen their personal attributes, and generate projects and research opportunities with SOA faculty that better prepare them for life after TTU.

#### **Intended Outcomes / Objectives:**

The main objective is to provide extra-curricular and inter-curricular opportunities for all SOA students through faculty guided research, mentoring, club and organization events and service-learning projects both locally and globally.

## **Student Learning Outcome 1.3**

### **Define Goal:**

Students will participate in activities and programs that enhance their leadership and social development and be challenged to discover and synthesize new means to growing professionally and personally.

### **Intended Outcomes / Objectives:**

The SOA will continue to offer study abroad tours, opportunities for service with Agriculture in the Classroom, service-learning courses, competitive teams, and other such events that will enhance the overall student experience and challenge them to perform and reflect on a regular basis. Additionally, a new leadership and service certificate program has been launched in the School, and will be open to all students in CAHE. Lastly, a new service-learning study abroad program in Scotland was launched spring of 2019 and 10 students participated in two projects that addressed food insecurity - locally and globally.

## **Student Learning Outcome 1.4**

### **Define Goal:**

Students will identify their critical thinking skill levels and problem solving abilities through a variety of assessments structured to meet the demands of the individual concentrations and develop new strategies to increase their ability to think critically and problem solve.

### **Intended Outcomes / Objectives:**

SOA students will score at or above TTU's student body average on the **California Critical Thinking Skills Test (CCTST)**. Additionally, incoming freshmen (fall of 2018) completed the UF-EMI critical thinking assessment and will be required to complete the same assessment annually. This longitudinal study will be used to better determine if and how SOA curriculum and experiential learning activities directly impact their critical thinking abilities and problem solving skills. 2019 CCTST scores are presented in a later section of this report.

## **Assessment Tools**

### **Assessment for Student Learning Outcome 1.1**

#### **Goal/ Outcome/ Objective:**

Student Learning Outcome 1.1

#### **Type of Tool:**

Exit Exam, Focus Group, Survey

**Frequency of Assessment:**

Annually, Biennial

**Rationale:**

1. Area Concentration Achievement Test (**ACAT**) results
2. Conversations and focus groups with stakeholders (Tennessee Farm Bureau, TN Farmers Coop, TriGreen Implement, Perdue Foods, National Resources Conservation Services, and United States Department of Agriculture).
3. Alumni Survey (**Fall 2019**)
4. Industry Survey - **see attachment for results**

**Assessment for Student Learning Outcome 1.2****Goal/ Outcome/ Objective:**

Student Learning Outcome 1.2

**Type of Tool:**

Survey, Other

**Frequency of Assessment:**

Annually

**Rationale:**

1. Review of faculty **Annual Reports** for involvement with student organizations, service projects and competitions.

**Assessment for Student Learning Outcome 1.3****Goal/ Outcome/ Objective:**

Student Learning Outcome 1.3

**Type of Tool:**

Annual Unit Report, Tracking Spreadsheet, Other

**Frequency of Assessment:**

Annually

**Rationale:**

1. Number of students taking advantage of study aboard opportunities
2. Participation in annual Ag-in-the-Classroom Days co-sponsored by Tennessee Farm Bureau and other similar activities.
3. Number of students involved in student organizations, attending state or national meetings for the organizations or their field of study.
4. Number of students participating in recruitment events
5. Number of students attending other outside events such as factory tours, field days, judging clinics, and competitive events.
6. Alumni Survey (Biennial)
7. Senior Exit Interviews

**Assessment for Student Learning Outcome 1.4****Goal/ Outcome/ Objective:**

Student Learning Outcome 1.4

**Type of Tool:**

Exit Exam, Survey

**Frequency of Assessment:**

Annually

**Rationale:**

Assessment of this Outcome utilized:

**CCTST (California Critical Thinking Skills Test) results**

**UF-EMI results**

**Senior Exit Interviews**

## **Assessment: Program Goal 1.1 - Enrollment Data**

### **Goal/ Outcome/ Objective:**

Program Goal 1.1

### **Type of Tool:**

FTE Enrollment, Graduation Rate, National Accrediting Agency Requirements and Standards

### **Frequency of Assessment:**

Annually/Biennially

### **Rationale:**

Assessment for Goal 1.1:

1. **Enrollment data** by semester
2. **Monitor recruitment work**
3. **Alumni Survey** to rate the effectiveness of the academic, extra-curricular opportunity, and career placement program (will launch fall of 2019).

## **Assessment: Program Goal 1.2 - Annual Faculty Reports, Grants applied, Interaction through student organizations, Poster presentation at Creative Inquiry Day**

### **Goal/ Outcome/ Objective:**

Program Goal 1.2

### **Type of Tool:**

Annual Unit Report, National Accrediting Agency Requirements and Standards, Other

### **Frequency of Assessment:**

Annually

### **Rationale:**

Assessment for Goal 1.2:

1. Review of **Annual Faculty Reports** in the research completed and research pending areas.
2. Monitor number of grants applied for.
3. Monitor number of students participating in the SOA student organizations
4. Monitor the number of students presenting at the Creative Inquiry Day

## **Assessment: Program Goal 1.3 - Annual Faculty Reports**

**Goal/ Outcome/ Objective:**

Program Goal 1.3

**Type of Tool:**

Annual Unit Report

**Frequency of Assessment:**

Annually

**Rationale:**

Assessment for Goal 1.3:

1. **Annual Faculty Reports** in participation in research conferences and trainings.
2. **Monitor budget increases** in available funding to support research related and other professional training opportunities

## **Assessment: Program Goal 1.4 - California Critical Thinking Skills Test**

**Goal/ Outcome/ Objective:**

Program Goal 1.4

**Type of Tool:**

Exit Exam, National Accrediting Agency Requirements and Standards, Survey

**Frequency of Assessment:**

Annually, Biennial

**Rationale:**

**CCTST results** (California Critical Thinking Skills Test—General Exit Exam). As mentioned in section 1.4, SOA seniors complete this national assessment in their final semester. It is the goal of SOA administration to first identify critical thinking levels of incoming freshmen, collect additional data throughout the students' tenure in the School and compare longitudinal data with CCTST scores, and determine what tool(s) can be implemented across the curriculum to increase CCTST scores. This is important for two reasons: 1) Helping our students be better critical thinkers and problem solvers will enable them to be better citizens; and 2) industry seeks new hires that demonstrate strong critical thinking and problem solving skills. The following is spring of 2019 data collected from University Assessment.

SOA Seniors -- Mean score of 15.7, n=47

TTU Seniors -- Mean score of 17.6, N=1295

## **Results**

### **ACAT Scores for Each Concentration/Field of Study**

#### **Goal/Objective/Outcome Number:**

Assessment for Student Learning Outcome 1.1

#### **Results:**

The attached document highlights spring of 2019 ACAT scores for all SOA seniors.

#### **Attachments:**

2019 ACAT-scores (1).pdf

## Core Course Alignment with Student Learning Objectives

**Goal/Objective/Outcome Number:**

**Results:**

| Course No. | Title                   | Career Readiness | Critical Thinking & Problem Solving | Service Learning | Leadership |
|------------|-------------------------|------------------|-------------------------------------|------------------|------------|
| AGRN 1100  | Plant Sci               | x                | x                                   |                  |            |
| AGRN 1110  | Plant Sci Lab           | x                | x                                   |                  |            |
| ANS 1200   | Intro Animal Sci        | x                | x                                   |                  |            |
| ANS 1210   | Intro Animal Sci Lab    | x                | x                                   |                  |            |
| AGBE 2100  | Economics of Ag         | x                | x                                   |                  |            |
| AGET 2110  | Ag Engineering Tech     | x                | x                                   |                  |            |
| AGET 2115  | Ag Engineering Tech Lab | x                | x                                   |                  |            |
| AGHE 1020  | Connections in AGHE     | x                | x                                   | x                | x          |
| AGHE 2022  | Professionalism         | x                | x                                   |                  | x          |
| AGHE 3000  | Leadership & Service    | x                | x                                   | x                | x          |
| AGHE 3200  | Study Abroad            | x                | x                                   | x                | x          |
| AGHE 3275  | Research Processes      | x                | x                                   |                  |            |
| AGHE 4500  | Senior Seminar          | x                | x                                   | x                | x          |

**Attachments:**

## Results: Enrollment, Retention, Graduation Program Goal 1.1

**Goal/Objective/Outcome Number:**

Program Goal 1.1

**Results:**

**SOA Core Course Map  
2019**

| <b>Course No.</b> | <b>Title</b>            | <b>Career Readiness</b> | <b>Critical Thinking &amp; Problem Solving</b> | <b>Service Learning</b> | <b>Leadership</b> |
|-------------------|-------------------------|-------------------------|--|-------------------------|-------------------|
| AGRN 1100         | Plant Sci               | x                       | x  |                         |                   |
| AGRN 1110         | Plant Sci Lab           | x                       | x  |                         |                   |
| ANS 1200          | Intro Animal Sci        | x                       | x  |                         |                   |
| ANS 1210          | Intro Animal Sci Lab    | x                       | x  |                         |                   |
| AGBE 2100         | Economics of Ag         | x                       | x  |                         |                   |
| AGET 2110         | Ag Engineering Tech     | x                       | x  |                         |                   |
| AGET 2115         | Ag Engineering Tech Lab | x                       | x  |                         |                   |
| AGHE 1020         | Connections in AGHE     | x                       | x  | x                       | x                 |
| AGHE 2022         | Professionalism         | x                       | x  |                         | x                 |
| AGHE 3000         | Leadership & Service    | x                       | x  | x                       | x                 |
| AGHE 3200         | Study Abroad            | x                       | x  | x                       | x                 |
| AGHE 3275         | Research Processes      | x                       | x  |                         |                   |
| AGHE 4500         | Senior Seminar          | x                       | x  | x                       | x                 |

**2017-2018 School of Agriculture (SOA) retention rates (most recent data)**

|             | Fall-to-Spring Retention | Fall-to-Fall Retention |
|-------------|--------------------------|------------------------|
| 2017 Cohort | 91.94%                   | 77.42                  |
|             |                          |                        |
|             |                          |                        |

**Overall and Freshmen Enrollments**

|      | Fall<br>Overall | %<br>Change from<br>prev. year | Fall<br>Freshmen |
|------|-----------------|--------------------------------|------------------|
| 2018 | 306             | -3.5%                          | 84               |

**School of Agriculture Graduation Results**

|           | Total number of Graduates |
|-----------|---------------------------|
| 2018-2019 | 71                        |
| 2017-2018 | 78                        |

**Attachments:**

**Results: Faculty and Staff Development Activity Program  
Goal 1.3**

**Goal/Objective/Outcome Number:**  
Program Goal 1.3

**Results:**

Faculty and staff development activity for 2018-19.

| Calendar Year | Faculty with Presentations | Number of Presentations | Faculty with Publications | Number of Publications |
|---------------|----------------------------|-------------------------|---------------------------|------------------------|
| 2018/19       | 5                          | 37                      | 7                         | 12                     |

#### Attachments:

### Results: Grant Proposals Written, Campus Research Day Program Goal 1.2

#### Goal/Objective/Outcome Number:

Program Goal 1.2

#### Results:

SOA students (12) presented posters at the TTU Creative Inquiry Research Day at the Hoop. Three SOA students won awards for their collaborative research. Full abstracts are available at <https://publish.tntech.edu/index.php/PSRCI/>

As previously mentioned, numerous SOA faculty have been successful at securing TTU sponsored grants (CISE, QEP and EDGE). Additionally, SOA faculty have been successful at securing private, local, state and federally funded grants. The following table is a full listing of awards.

| 2018  |           |
|---|-----------|
| Liz Mullens-TN Dept of Ag                     | \$85,000  |
| Dennis Duncan--TN Dept of Ag                  | \$14,400  |
| Brian Leckie--US Dept of Ag                   | \$300,000 |
| Brian Leckie--America Rivers / Tallassee Fund | \$17,150  |
| Brian Leckie--TN Dept of Ag                   | \$20,000  |
| O.P. McCubbins--TN Dept of Ed                 | \$222,416 |
| Pat Bagley – Y-Tek                            | \$5,000   |

#### Attachments:

## **Results: Study Abroad, Ag in the Classroom, Competition Events, Recruit SLO 1.3**

### **Goal/Objective/Outcome Number:**

Student Learning Outcome 1.3

### **Results:**

There were three study abroad trips offered - Scotland, Netherlands and Mexico - which included 4 School of Agriculture faculty member and 47 students total.

The annual Farm Days/Agriculture in the Classroom in collaboration with TN Farm Bureau involved over 25 TTU students, 9 faculty and included over 1,800 elementary students and their teachers from across Putnam County.

SOA hosted a number of FFA events throughout the year - this involved over 20 TTU students and faculty (**see attachment for total numbers**).

SOA participated in both the state and national FFA conventions with the aid of TTU students (12-14). The TN FFA convention draws over 300 FFA members from across TN and the National FFA convention draws over 50,000 FFA members from across the US.

CAHE Recruiter and Dr. Dennis Fennwald participated in the Georgia FFA state convention. This convention draws over 5,000 FFA members from across GA. The Eagle Reach program was presented at the convention.

### **Attachments:**

SOA Fall and Spring Clinics.docx

## **SOA Core Course Mapping**

### **Goal/Objective/Outcome Number:**

Align Core Courses with Specific Personal and Professional Attributes/Skills

### **Results:**

The attached course map highlights core courses and specific attributes/skills identified as important for current and future success and career readiness.

### **Attachments:**

SOA Core Course Map.docx

## **Modifications and Continuing Improvement to Goals/Objectives/Outcomes**

### **SOA Strategic Plan**

#### **Goal/Objective/Outcome Number:**

Align SOA Curriculum, Research and Outreach Efforts with the Tech Tomorrow Strategic Plan

#### **Program Changes and Actions due to Results:**

See Attachment for Most Recent SOA Strategic Plan.

#### **Link to Assessment:**

#### **Link to 'Tech Tomorrow' Strategic Plan:**

# ACAT

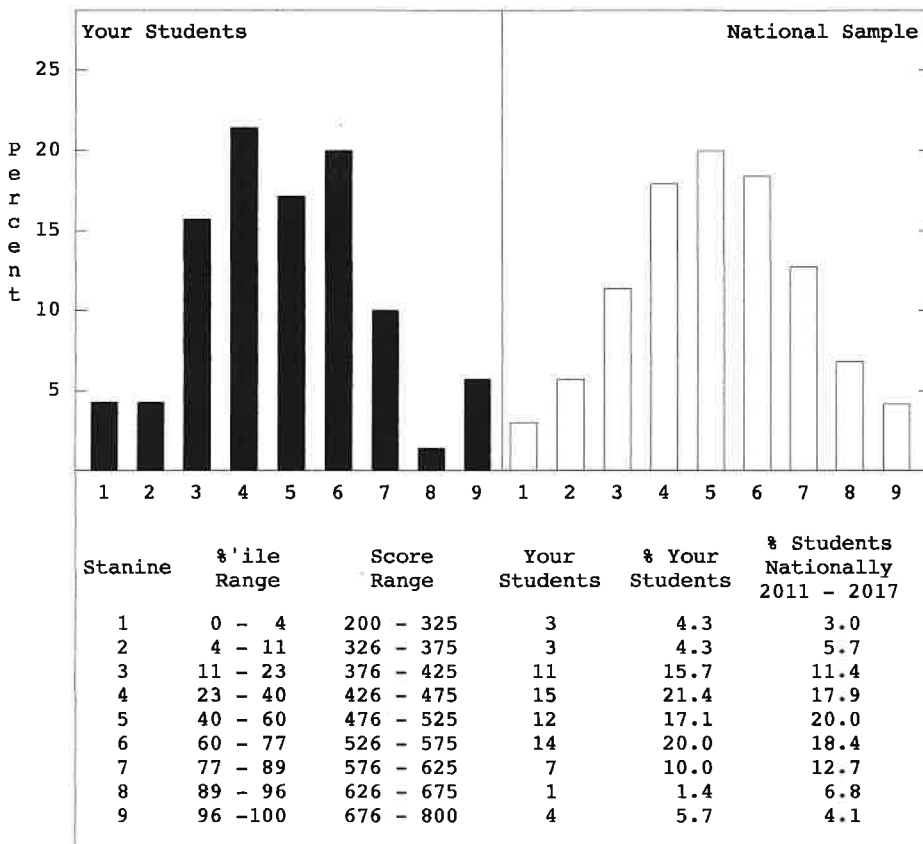
## Departmental Score Report

Institution: **Tennessee Technological University**  
 Discipline: **Agriculture**  
 Testing Year: **2018-19 (Final)**  
 Date Prepared: **6/10/2019**  
 Report Type: **FINAL - Senior - Profile 2**

ACAT scores range from 200 to 800 with an average of 500 and a standard deviation of 100. A score of 600 would be 1 standard deviation above average. A score of 450 would be .5 standard deviations (50 points) below average. Nationally, 68% of the scores in any given year should fall between approximately 400 and 600. Year-to-year variations in the size of the reference groups will cause scores to fall outside these limits. The content area scores are compared with a reference group of other examinees taking the same content area. The overall performance score is compared with other examinees taking the ACAT in this discipline with the same number of content areas. The overall score is a separately determined performance appraisal rather than a numerical average of the area scores. The percentile shown on the table is the percent of students in the national reference group expected to obtain a score equal to or less than the one shown. The reference groups are composed of the examinees during the most recent 6-year period.

| Area                        | Standard Score | %ile      | Reference Group Size |
|-----------------------------|----------------|-----------|----------------------|
| Animal Science              | 524            | 59        | 1968                 |
| Plant Science               | 511            | 54        | 1968                 |
| Soil Science                | 529            | 61        | 1968                 |
| Agricultural Mechanization  | 505            | 52        | 1294                 |
| Agri-Business and Economics | 512            | 55        | 1880                 |
| <b>OVERALL PERFORMANCE</b>  | <b>494</b>     | <b>48</b> | <b>441</b>           |

Based on a reference group of 441 graduating students taking an ACAT in Agriculture with 5 areas, 48% would be expected to achieve at or below your overall performance score of 494, 52% would be expected to achieve a higher score.



The graph and table to the left compare your students' performance (solid bars) to that of the national reference group (open bars). The scores are grouped by percentile ranges corresponding to stanines. For your convenience, the data are summarized in the table appearing under the graph. The standard score range is shown next to each stanine along with the number and percent of your students in each group and the percent of the national reference sample falling into the same group.

The score distribution from your program should resemble the national sample. If it doesn't, the discrepancy could be a result of the size of your group. Smaller groups are prone to underestimating the range of scores obtained from a larger group. The best estimate of performance would be obtained by comparing the score distributions contained in your final reports across a period of several years.

Unlike a classroom examination, the ACAT content areas are calibrated so the average student will receive an un-weighted score of approximately 49% correct. ACAT standard scores include a graduated weight for item difficulty and deductions for incorrect responses. Neither of these corrections have been applied to the un-weighted averages shown here. Items which fail to meet PACAT's psychometric standards are excluded from scoring. The values in the table to the right should be interpreted with caution. Note: Standard deviations are not calculated for samples smaller than 5.

| Area                        | Un-weighted Average | Standard Deviation |
|-----------------------------|---------------------|--------------------|
| Animal Science              | 65                  | 16                 |
| Plant Science               | 47                  | 12                 |
| Soil Science                | 59                  | 16                 |
| Agricultural Mechanization  | 44                  | 17                 |
| Agri-Business and Economics | 55                  | 14                 |
| OVERALL PERFORMANCE         | 54                  | 10                 |

| GPA       | Overall | Major | Examinees                 |    |
|-----------|---------|-------|---------------------------|----|
| 1.5 - 2.0 | 1       | 1     | Female Examinees          | 32 |
| 2.1 - 2.5 | 10      | 4     | Male Examinees            | 35 |
| 2.6 - 3.0 | 18      | 14    | Transfer Students         | 35 |
| 3.1 - 3.5 | 27      | 25    | Planning Graduate Studies | 18 |
| 3.6 - 4.0 | 11      | 24    | Students Tested           | 70 |

At the time of the examination, your students were asked to report their gender, whether or not they transferred to your institution from another, whether or not they plan to attend graduate school, and their grade point average in their major and overall. Not all examinees choose to provide the information and it is possible the information provided is not accurate.

Correlations were calculated between your students' self-reported grade point averages and their scores in each content area as well as their overall score. Positive values mean higher grade point averages are associated with higher ACAT scores. Negative values mean higher grade point averages are associated with lower scores. Relationships appearing in the table are likely to occur due to chance fewer than 5 times in 100. Missing values are either unreliable or cannot be calculated due to your group size. Correlations represent a mathematical relationship and should not be interpreted to mean one measure directly affects the other. Group size and self-reporting errors can adversely impact the analyses.

| Area                        | Correlation with GPA |        |
|-----------------------------|----------------------|--------|
|                             | Overall              | Major  |
| Animal Science              | +0.272               |        |
| Plant Science               | +0.447               | +0.362 |
| Soil Science                | +0.390               | +0.385 |
| Agricultural Mechanization  |                      |        |
| Agri-Business and Economics |                      |        |
| OVERALL PERFORMANCE         | +0.405               | +0.310 |

Several significant positive correlations are shown in the table. Better performance on these individual areas of the ACAT was associated with higher GPAs. The column heading indicates whether these GPAs were overall or in the major. Significant positive correlations were also found between overall ACAT performance and GPA in both the major and overall. Positive values indicate higher GPAs predicted higher overall scores on the ACAT. The students' self-reported overall GPA accounted for approximately 16% of the variability in overall ACAT scores while major GPA accounted for approximately 10%.

Your students indicated the areas included in courses they had taken in your department. Where these areas are included on your version of the ACAT, correlations were calculated between taking a course in the area and performance on the ACAT. Correlation coefficients in this table can be either positive or negative. Positive relationships indicate taking a course focusing on the area is associated with higher ACAT scores in that area. Negative values indicate the opposite. Relationships appearing in the table are likely to occur due to chance fewer than 5 times in 100. Missing values are either unreliable or cannot be calculated. Correlations represent a mathematical relationship and should not be interpreted to mean one measure directly affects the other. Group size and self-reporting errors can adversely impact the analyses. The likelihood of a significant correlation is diminished when a very small or very large proportion of your students have taken a course.

| Area                         | Frequency | %  | Correlation |
|------------------------------|-----------|----|-------------|
| Agricultural Business        | 47        | 67 |             |
| Agricultural Economics       | 49        | 70 |             |
| Agricultural Education       | 14        | 20 |             |
| Agricultural Extension       | 6         | 9  |             |
| Agricultural Mechanization   | 19        | 27 | +0.333      |
| Agricultural Role and Scope  | 2         | 3  |             |
| Animal Science               | 55        | 79 |             |
| Food Handling and Processing | 13        | 19 |             |
| Forestry                     | 2         | 3  |             |
| Genetics                     | 17        | 24 |             |
| History of Agriculture       | 4         | 6  |             |
| Plant Science                | 52        | 74 |             |
| Soil and Water Conservation  | 26        | 37 |             |
| Soil Science                 | 49        | 70 |             |
| Wildlife Management          | 1         | 1  |             |

The change indicators to the right are calculated by comparing the students you tested this year to a cumulative group consisting of the 139 students you have tested over the past 16 years. The indicators are similar to what would be the case if the ACAT was a locally developed test used only at your institution and interpreted by comparison to the performance of your previous graduates. The indicators are reported in increments of .25 standard deviations. Positive values indicate improvements in performance while negative values indicate declines. When interpreting the indicators for your department, values of less than .50 may be a result of random variation rather than a reflection of changes in performance. PACAT recommends you base your interpretation on two or more years of consecutive change indicators. Because different reference groups are used, these change indicators are not directly comparable to the standard scores provided elsewhere in this report.

| Area                        | Change |
|-----------------------------|--------|
| Animal Science              | +0.25  |
| Plant Science               | -0.25  |
| Soil Science                | 0.00   |
| Agricultural Mechanization  | -0.50  |
| Agri-Business and Economics | 0.00   |
| OVERALL PERFORMANCE         | 0.00   |

## Individual Examinee Standard Scores Sorted Alphabetically by Last Name

These scores should be interpreted with caution. The ACAT is intended to evaluate an entire group of graduating seniors. The accuracy of scores for individual students, particularly in the separate content areas, is limited. The overall performance score is illustrative of the general performance of each student. Individual student performance can be expected to vary across administrations of the same test and can be affected by numerous factors, including motivation and the circumstances under which the test is administered. PACAT Incorporated does not recommend the use of these scores for making decisions about the academic achievement of individual students. Institutions using the scores for individual evaluation should take these limitations into account.

| Name       |            |   | Student ID | 1   | 2   | 3   | 4   | 5   | Overall Score | % 'ile |
|------------|------------|---|------------|-----|-----|-----|-----|-----|---------------|--------|
| ADAMS      | LOGAN      | L | 2164723    | 515 | 487 | 516 | 680 | 489 | 530           | 62     |
| ATKINS     | BENJAMIN   | R | T00191044  | 599 | 603 | 522 | 591 | 611 | 596           | 83     |
| BALL       | JONATHON   | L | T00191048  | 646 | 598 | 711 | 760 | 598 | 724           | 99     |
| BARRY      | AUSTIN     | K | T00209445  | 492 | 565 | 581 | 536 | 659 | 564           | 74     |
| BLACKWELL  | RACHAEL    | E | T00240306  | 616 | 520 | 607 | 546 | 272 | 498           | 49     |
| BRAMBLETT  | ETHAN      | N | T00202190  | 622 | 626 | 536 | 556 | 611 | 603           | 85     |
| BRAY       | DANIEL     | R | T00208450  | 485 | 503 | 646 | 501 | 659 | 556           | 71     |
| BROOKS     | COURTNEY   | D | T00208458  | 415 | 361 | 342 | 466 | 394 | 312           | 3      |
| BROWN      | AUSTIN     | J | T00208463  | 468 | 445 | 452 | 422 | 489 | 399           | 16     |
| BUSH       | JOSH       |   | T00159696  | 552 | 654 | 626 | 581 | 611 | 622           | 89     |
| CHASTAIN   | SAVANNAH   | J | T00215774  | 539 | 509 | 573 | 422 | 422 | 460           | 34     |
| CHAWDA     | PRATIK     |   | T00202611  | 438 | 601 | 581 | 581 | 564 | 540           | 66     |
| CHERRY     | COURTNEY   | M | T00208533  | 468 | 331 | 426 | 466 | 408 | 355           | 7      |
| CHILTON    | KENDELYN   | T | T00113517  | 502 | 531 | 531 | 412 | 598 | 485           | 44     |
| CLIFTON    | CARLEE     | W | T00218802  | 629 | 450 | 516 | 591 | 428 | 516           | 56     |
| CRABTREE   | HALEY      | R | T00202890  | 616 | 414 | 452 | 456 | 381 | 425           | 23     |
| CROUCH     | JOHN       | R | T00204321  | 338 | 417 | 508 | 287 | 300 | 267           | 1      |
| DAVIS      | KYLE       | A | T00208565  | 485 | 475 | 562 | 446 | 673 | 508           | 53     |
| DICKSON    | WILLIAM    | C | T00214114  | 432 | 526 | 587 | 625 | 611 | 550           | 69     |
| DILLON     | ASHLAND    | L | T00205483  | 555 | 545 | 697 | 466 | 456 | 539           | 65     |
| ELLIS      | BROOKLYN   | D | T00206792  | 646 | 487 | 502 | 491 | 381 | 481           | 42     |
| FLOYD      | HAYDEN     | M | T00170993  | 522 | 459 | 421 | 546 | 503 | 456           | 33     |
| GALLOWAY   | TAYLOR     | S | T00185950  | 616 | 729 | 686 | 367 | 489 | 578           | 78     |
| GAW        | MATTHEW    | B | T00189598  | 475 | 425 | 381 | 536 | 564 | 432           | 25     |
| GERRISH    | PRESTON    | T | T00193125  | 445 | 578 | 511 | 536 | 367 | 444           | 29     |
| GIBSON     | MARISSA    | P | T00196048  | 592 | 425 | 480 | 342 | 550 | 440           | 27     |
| GONZALEZ   | ELIEZER    |   | T00230723  | 462 | 590 | 454 | 586 | 530 | 497           | 49     |
| GORDON     | EMILY      | C | T00214363  | 522 | 395 | 401 | 501 | 456 | 406           | 17     |
| GORE       | RICHARD    | A | T00211755  | 445 | 487 | 395 | 367 | 496 | 367           | 9      |
| GREGORY    | JESSE      | C | T00191125  | 485 | 450 | 460 | 456 | 442 | 407           | 18     |
| HALL       | DANIEL     | S | T00191269  | 515 | 709 | 742 | 715 | 564 | 690           | 97     |
| HARRIS     | SARAH      | K | T00213802  | 415 | 431 | 426 | 412 | 611 | 400           | 16     |
| HASSLER    | SAMUEL     | C | T00139673  | 415 | 501 | 646 | 591 | 673 | 563           | 74     |
| HEFFRON    | MEGAN      | K | T00219306  | 646 | 565 | 646 | 456 | 598 | 597           | 83     |
| HOLT       | DARRELL    | R | T00512482  | 338 | 462 | 387 | 456 | 503 | 351           | 7      |
| HUGHEY     | RYAN       | K | T00164135  | 385 | 475 | 511 | 536 | 489 | 433           | 25     |
| JACKSON    | ALEXANDER  | C | T00199653  | 351 | 442 | 395 | 536 | 503 | 379           | 11     |
| JERGENS    | JOSHUA     | S | T00177072  | 438 | 495 | 570 | 591 | 428 | 476           | 41     |
| JOHNSON    | SHELBY     |   | T00216372  | 592 | 520 | 531 | 367 | 320 | 421           | 21     |
| JOLIN      | CODY       | M | T00186138  | 492 | 615 | 736 | 466 | 517 | 563           | 74     |
| JOLIN      | JACQULYN   | N | T00252826  | 545 | 489 | 469 | 591 | 442 | 484           | 44     |
| JUH        | MICHAEL    | D | T00164329  | 415 | 459 | 593 | 491 | 442 | 438           | 27     |
| KELLEY     | CHANCE     | A | T00206425  | 652 | 395 | 505 | 581 | 611 | 556           | 71     |
| KLINGLER   | SHILOH     | M | T00214691  | 676 | 629 | 652 | 670 | 489 | 663           | 95     |
| KOEHLE     | ERIK       | I | T00209219  | 522 | 754 | 697 | 412 | 686 | 625           | 89     |
| LEDBETTER  | RACHEL     | E | T00212898  | 592 | 565 | 536 | 412 | 550 | 514           | 56     |
| LLOYD      | ALYSEA     | L | T00188878  | 432 | 311 | 452 | 342 | 456 | 319           | 4      |
| LOLLAR     | MADISON    | E | T00193188  | 592 | 481 | 401 | 456 | 517 | 455           | 33     |
| MADSON     | DANI       | L | T00197786  | 639 | 584 | 466 | 491 | 550 | 538           | 65     |
| MARTIN     | SEAN       | R | T00190572  | 385 | 417 | 491 | 511 | 537 | 418           | 21     |
| MARTY      | CHRISTOPHE | A | T00216907  | 586 | 514 | 570 | 581 | 503 | 551           | 69     |
| MCNEES     | KATHERINE  | R | T00196385  | 562 | 495 | 387 | 322 | 503 | 396           | 15     |
| MORRIS     | KATIE      | B | T00208826  | 555 | 545 | 460 | 591 | 517 | 520           | 58     |
| MUIRHEAD   | WILLIAM    | R | T00206977  | 408 | 584 | 658 | 456 | 673 | 541           | 66     |
| PHILLIPS   | JOSEPH     | E | T00190438  | 452 | 481 | 426 | 670 | 578 | 499           | 50     |
| RAMSEY     | SHELBY     | L | T00217881  | 699 | 620 | 581 | 581 | 442 | 604           | 85     |
| REESE      | ANNA       | L | T00207380  | 592 | 386 | 502 | 332 | 456 | 407           | 18     |
| RICH       | AMBER      | M | T00178757  | 592 | 431 | 471 | 466 | 394 | 434           | 25     |
| RITTENBERR | VICTORIA   | K | T00197637  | 432 | 501 | 593 | 501 | 347 | 430           | 24     |
| RYE        | TYLER      | O | T00197321  | 575 | 698 | 722 | 760 | 598 | 726           | 99     |
| SALAZAR    | MARCUS     | J | T00241744  | 492 | 456 | 466 | 466 | 611 | 464           | 36     |
| SANDERS    | CHELSEA    | J | T00228745  | 569 | 412 | 491 | 422 | 428 | 422           | 22     |
| SIMMONS    | MADISON    | B | T00202321  | 515 | 495 | 446 | 491 | 442 | 435           | 26     |
| STEPHENS   | KATHRYN    | C | T00195814  | 652 | 531 | 581 | 536 | 503 | 569           | 75     |
| SWAIN      | CASI       | J | T00209763  | 592 | 520 | 607 | 412 | 673 | 561           | 73     |
| TOWNS      | GRANT      | P | T00211911  | 669 | 734 | 717 | 725 | 611 | 759           | 100    |

## Individual Examinee Standard Scores Sorted Alphabetically by Last Name

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| Name      |        |   | Student ID | 1   | 2   | 3   | 4   | 5   | Overall Score | % 'ile |
|-----------|--------|---|------------|-----|-----|-----|-----|-----|---------------|--------|
| VANOSDALE | EMILY  | M | T00186676  | 509 | 381 | 531 | 491 | 673 | 498           | 49     |
| VICKERS   | RAEGAN | M | T00188206  | 562 | 481 | 494 | 377 | 456 | 431           | 25     |
| WALLS     | AARON  | B | T00189976  | 522 | 553 | 491 | 491 | 381 | 449           | 31     |
| WILLIAMS  | STEVEN | D | T00102356  | 515 | 501 | 356 | 466 | 550 | 430           | 24     |

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| Student ID | 1   | 2   | 3   | 4   | 5   | Overall Score | %ile |
|------------|-----|-----|-----|-----|-----|---------------|------|
| T2164723   | 515 | 487 | 516 | 680 | 489 | 530           | 62   |
| T00102356  | 515 | 501 | 356 | 466 | 550 | 430           | 24   |
| T00113517  | 502 | 531 | 531 | 412 | 598 | 485           | 44   |
| T00139673  | 415 | 501 | 646 | 591 | 673 | 563           | 74   |
| T00159696  | 552 | 654 | 626 | 581 | 611 | 622           | 89   |
| T00164135  | 385 | 475 | 511 | 536 | 489 | 433           | 25   |
| T00164329  | 415 | 459 | 593 | 491 | 442 | 438           | 27   |
| T00170993  | 522 | 459 | 421 | 546 | 503 | 456           | 33   |
| T00177072  | 438 | 495 | 570 | 591 | 428 | 476           | 41   |
| T00178757  | 592 | 431 | 471 | 466 | 394 | 434           | 25   |
| T00185950  | 616 | 729 | 686 | 367 | 489 | 578           | 78   |
| T00186138  | 492 | 615 | 736 | 466 | 517 | 563           | 74   |
| T00186676  | 509 | 381 | 531 | 491 | 673 | 498           | 49   |
| T00188206  | 562 | 481 | 494 | 377 | 456 | 431           | 25   |
| T00188878  | 432 | 311 | 452 | 342 | 456 | 319           | 4    |
| T00189598  | 475 | 425 | 381 | 536 | 564 | 432           | 25   |
| T00189976  | 522 | 553 | 491 | 491 | 381 | 449           | 31   |
| T00190438  | 452 | 481 | 426 | 670 | 578 | 499           | 50   |
| T00190572  | 385 | 417 | 491 | 511 | 537 | 418           | 21   |
| T00191044  | 599 | 603 | 522 | 591 | 611 | 596           | 83   |
| T00191048  | 646 | 598 | 711 | 760 | 598 | 724           | 99   |
| T00191125  | 485 | 450 | 460 | 456 | 442 | 407           | 18   |
| T00191269  | 515 | 709 | 742 | 715 | 564 | 690           | 97   |
| T00193125  | 445 | 578 | 511 | 536 | 367 | 444           | 29   |
| T00193188  | 592 | 481 | 401 | 456 | 517 | 455           | 33   |
| T00195814  | 652 | 531 | 581 | 536 | 503 | 569           | 75   |
| T00196048  | 592 | 425 | 480 | 342 | 550 | 440           | 27   |
| T00196385  | 562 | 495 | 387 | 322 | 503 | 396           | 15   |
| T00197321  | 575 | 698 | 722 | 760 | 598 | 726           | 99   |
| T00197637  | 432 | 501 | 593 | 501 | 347 | 430           | 24   |
| T00197786  | 639 | 584 | 466 | 491 | 550 | 538           | 65   |
| T00199653  | 351 | 442 | 395 | 536 | 503 | 379           | 11   |
| T00202190  | 622 | 626 | 536 | 556 | 611 | 603           | 85   |
| T00202321  | 515 | 495 | 446 | 491 | 442 | 435           | 26   |
| T00202611  | 438 | 601 | 581 | 581 | 564 | 540           | 66   |
| T00202890  | 616 | 414 | 452 | 456 | 381 | 425           | 23   |
| T00204321  | 338 | 417 | 508 | 287 | 300 | 267           | 1    |
| T00205483  | 555 | 545 | 697 | 466 | 456 | 539           | 65   |
| T00206425  | 652 | 395 | 505 | 581 | 611 | 556           | 71   |
| T00206792  | 646 | 487 | 502 | 491 | 381 | 481           | 42   |
| T00206977  | 408 | 584 | 658 | 456 | 673 | 541           | 66   |
| T00207380  | 592 | 386 | 502 | 332 | 456 | 407           | 18   |
| T00208450  | 485 | 503 | 646 | 501 | 659 | 556           | 71   |
| T00208458  | 415 | 361 | 342 | 466 | 394 | 312           | 3    |
| T00208463  | 468 | 445 | 452 | 422 | 489 | 399           | 16   |
| T00208533  | 468 | 331 | 426 | 466 | 408 | 355           | 7    |
| T00208565  | 485 | 475 | 562 | 446 | 673 | 508           | 53   |
| T00208826  | 555 | 545 | 460 | 591 | 517 | 520           | 58   |
| T00209219  | 522 | 754 | 697 | 412 | 686 | 625           | 89   |
| T00209445  | 492 | 565 | 581 | 536 | 659 | 564           | 74   |
| T00209763  | 592 | 520 | 607 | 412 | 673 | 561           | 73   |
| T00211755  | 445 | 487 | 395 | 367 | 496 | 367           | 9    |
| T00211911  | 669 | 734 | 717 | 725 | 611 | 759           | 100  |
| T00212898  | 592 | 565 | 536 | 412 | 550 | 514           | 56   |
| T00213802  | 415 | 431 | 426 | 412 | 611 | 400           | 16   |
| T00214114  | 432 | 526 | 587 | 625 | 611 | 550           | 69   |
| T00214363  | 522 | 395 | 401 | 501 | 456 | 406           | 17   |
| T00214691  | 676 | 629 | 652 | 670 | 489 | 663           | 95   |
| T00215774  | 539 | 509 | 573 | 422 | 422 | 460           | 34   |
| T00216372  | 592 | 520 | 531 | 367 | 320 | 421           | 21   |
| T00216907  | 586 | 514 | 570 | 581 | 503 | 551           | 69   |
| T00217881  | 699 | 620 | 581 | 581 | 442 | 604           | 85   |
| T00218802  | 629 | 450 | 516 | 591 | 428 | 516           | 56   |
| T00219306  | 646 | 565 | 646 | 456 | 598 | 597           | 83   |
| T00228745  | 569 | 412 | 491 | 422 | 428 | 422           | 22   |
| T00230723  | 462 | 590 | 454 | 586 | 530 | 497           | 49   |

## Individual Examinee Standard Scores Sorted Numerically by Student ID

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| Student ID | 1   | 2   | 3   | 4   | 5   | Overall Score | % 'ile |
|------------|-----|-----|-----|-----|-----|---------------|--------|
| T00240306  | 616 | 520 | 607 | 546 | 272 | 498           | 49     |
| T00241744  | 492 | 456 | 466 | 466 | 611 | 464           | 36     |
| T00252826  | 545 | 489 | 469 | 591 | 442 | 484           | 44     |
| T00512482  | 338 | 462 | 387 | 456 | 503 | 351           | 7      |

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## Individual Examinee Stanine Scores Sorted Alphabetically by Last Name

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| Name                  | Student ID | 1 | 2 | 3 | 4 | 5 | Overall Score |
|-----------------------|------------|---|---|---|---|---|---------------|
| ADAMS LOGAN L         | 2164723    | 5 | 5 | 5 | 9 | 5 | 6             |
| ATKINS BENJAMIN R     | T00191044  | 7 | 7 | 5 | 7 | 7 | 7             |
| BALL JONATHON L       | T00191048  | 8 | 7 | 9 | 9 | 7 | 9             |
| BARRY AUSTIN K        | T00209445  | 5 | 6 | 7 | 6 | 8 | 6             |
| BLACKWELL RACHAEL E   | T00240306  | 7 | 5 | 7 | 6 | 1 | 5             |
| BRAMBLETT ETHAN N     | T00202190  | 7 | 8 | 6 | 6 | 7 | 7             |
| BRAY DANIEL R         | T00208450  | 5 | 5 | 8 | 5 | 8 | 6             |
| BROOKS COURTNEY D     | T00208458  | 3 | 2 | 2 | 4 | 3 | 1             |
| BROWN AUSTIN J        | T00208463  | 4 | 4 | 4 | 3 | 5 | 3             |
| BUSH JOSH             | T00159696  | 6 | 8 | 8 | 7 | 7 | 7             |
| CHASTAIN SAVANNAH J   | T00215774  | 6 | 5 | 6 | 3 | 3 | 4             |
| CHAWDA PRATIK         | T00202611  | 4 | 7 | 7 | 7 | 6 | 6             |
| CHERRY COURTNEY M     | T00208533  | 4 | 2 | 4 | 4 | 3 | 2             |
| CHILTON KENDELYN T    | T00113517  | 5 | 6 | 6 | 3 | 7 | 5             |
| CLIFTON CARLEE W      | T00218802  | 8 | 4 | 5 | 7 | 4 | 5             |
| CRABTREE HALEY R      | T00202890  | 7 | 3 | 4 | 4 | 3 | 3             |
| CROUCH JOHN R         | T00204321  | 2 | 3 | 5 | 1 | 1 | 1             |
| DAVIS KYLE A          | T00208565  | 5 | 4 | 6 | 4 | 8 | 5             |
| DICKSON WILLIAM C     | T00214114  | 4 | 6 | 7 | 7 | 7 | 6             |
| DILLON ASHLAND L      | T00205483  | 6 | 6 | 9 | 4 | 4 | 6             |
| ELLIS BROOKLYN D      | T00206792  | 8 | 5 | 5 | 5 | 3 | 5             |
| FLOYD HAYDEN M        | T00170993  | 5 | 4 | 3 | 6 | 5 | 4             |
| GALLOWAY TAYLOR S     | T00185950  | 7 | 9 | 9 | 2 | 5 | 7             |
| GAW MATTHEW B         | T00189598  | 4 | 3 | 3 | 6 | 6 | 4             |
| GERRISH PRESTON T     | T00193125  | 4 | 7 | 5 | 6 | 2 | 4             |
| GIBSON MARISSA P      | T00196048  | 7 | 3 | 5 | 2 | 6 | 4             |
| GONZALEZ ELIEZER      | T00230723  | 4 | 7 | 4 | 7 | 6 | 5             |
| GORDON EMILY C        | T00214363  | 5 | 3 | 3 | 5 | 4 | 3             |
| GORE RICHARD A        | T00211755  | 4 | 5 | 3 | 2 | 5 | 2             |
| GREGORY JESSE C       | T00191125  | 5 | 4 | 4 | 4 | 4 | 3             |
| HALL DANIEL S         | T00191269  | 5 | 9 | 9 | 9 | 6 | 9             |
| HARRIS SARAH K        | T00213802  | 3 | 4 | 4 | 3 | 7 | 3             |
| HASSLER SAMUEL C      | T00139673  | 3 | 5 | 8 | 7 | 8 | 6             |
| HEFFRON MEGAN K       | T00219306  | 8 | 6 | 8 | 4 | 7 | 7             |
| HOLT DARRELL R        | T00512482  | 2 | 4 | 3 | 4 | 5 | 2             |
| HUGHEY RYAN K         | T00164135  | 3 | 4 | 5 | 6 | 5 | 4             |
| JACKSON ALEXANDER C   | T00199653  | 2 | 4 | 3 | 6 | 5 | 3             |
| JERGENS JOSHUA S      | T00177072  | 4 | 5 | 6 | 7 | 4 | 5             |
| JOHNSON SHELBY        | T00216372  | 7 | 5 | 6 | 2 | 1 | 3             |
| JOLIN CODY M          | T00186138  | 5 | 7 | 9 | 4 | 5 | 6             |
| JOLIN JACQULYN N      | T00252826  | 6 | 5 | 4 | 7 | 4 | 5             |
| JUH MICHAEL D         | T00164329  | 3 | 4 | 7 | 5 | 4 | 4             |
| KELLEY CHANCE A       | T00206425  | 8 | 3 | 5 | 7 | 7 | 6             |
| KLINGLER SHILOH M     | T00214691  | 9 | 8 | 8 | 8 | 5 | 8             |
| KOEHLER ERIK I        | T00209219  | 5 | 9 | 9 | 3 | 9 | 7             |
| LEDBETTER RACHEL E    | T00212898  | 7 | 6 | 6 | 3 | 6 | 5             |
| LLOYD ALYSHA L        | T00188878  | 4 | 1 | 4 | 2 | 4 | 1             |
| LOLLAR MADISON E      | T00193188  | 7 | 5 | 3 | 4 | 5 | 4             |
| MADSON DANI L         | T00197786  | 8 | 7 | 4 | 5 | 6 | 6             |
| MARTIN SEAN R         | T00190572  | 3 | 3 | 5 | 5 | 6 | 3             |
| MARTY CHRISTOPHE A    | T00216907  | 7 | 5 | 6 | 7 | 5 | 6             |
| MCNEES KATHERINE R    | T00196385  | 6 | 5 | 3 | 1 | 5 | 3             |
| MORRIS KATIE B        | T00208826  | 6 | 6 | 4 | 7 | 5 | 5             |
| MUIRHEAD WILLIAM R    | T00206977  | 3 | 7 | 8 | 4 | 8 | 6             |
| PHILLIPS JOSEPH E     | T00190438  | 4 | 5 | 4 | 8 | 7 | 5             |
| RAMSEY SHELBY L       | T00217881  | 9 | 7 | 7 | 7 | 4 | 7             |
| REESE ANNA L          | T00207380  | 7 | 3 | 5 | 2 | 4 | 3             |
| RICH AMBER M          | T00178757  | 7 | 4 | 4 | 4 | 3 | 4             |
| RITTENBERR VICTORIA K | T00197637  | 4 | 5 | 7 | 5 | 2 | 4             |
| RYE TYLER O           | T00197321  | 6 | 9 | 9 | 9 | 7 | 9             |
| SALAZAR MARCUS J      | T00241744  | 5 | 4 | 4 | 4 | 7 | 4             |
| SANDERS CHELSEA J     | T00228745  | 6 | 3 | 5 | 3 | 4 | 3             |
| SIMMONS MADISON B     | T00202321  | 5 | 5 | 4 | 5 | 4 | 4             |

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| Name      |         |   | Student ID | 1 | 2 | 3 | 4 | 5 | Overall Score |
|-----------|---------|---|------------|---|---|---|---|---|---------------|
| STEPHENS  | KATHRYN | C | T00195814  | 8 | 6 | 7 | 6 | 5 | 6             |
| SWAIN     | CASI    | J | T00209763  | 7 | 5 | 7 | 3 | 8 | 6             |
| TOWNS     | GRANT   | P | T00211911  | 8 | 9 | 9 | 9 | 7 | 9             |
| VANOSDALE | EMILY   | M | T00186676  | 5 | 3 | 6 | 5 | 8 | 5             |
| VICKERS   | RAEGAN  | M | T00188206  | 6 | 5 | 5 | 3 | 4 | 4             |
| WALLS     | AARON   | B | T00189976  | 5 | 6 | 5 | 5 | 3 | 4             |
| WILLIAMS  | STEVEN  | D | T00102356  | 5 | 5 | 2 | 4 | 6 | 4             |

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| Student ID | 1 | 2 | 3 | 4 | 5 | Overall Score |
|------------|---|---|---|---|---|---------------|
| 2164723    | 5 | 5 | 5 | 9 | 5 | 6             |
| T00102356  | 5 | 5 | 2 | 4 | 6 | 4             |
| T00113517  | 5 | 6 | 6 | 3 | 7 | 5             |
| T00139673  | 3 | 5 | 8 | 7 | 8 | 6             |
| T00159696  | 6 | 8 | 8 | 7 | 7 | 7             |
| T00164135  | 3 | 4 | 5 | 6 | 5 | 4             |
| T00164329  | 3 | 4 | 7 | 5 | 4 | 4             |
| T00170993  | 5 | 4 | 3 | 6 | 5 | 4             |
| T00177072  | 4 | 5 | 6 | 7 | 4 | 5             |
| T00178757  | 7 | 4 | 4 | 4 | 3 | 4             |
| T00185950  | 7 | 9 | 9 | 2 | 5 | 7             |
| T00186138  | 5 | 7 | 9 | 4 | 5 | 6             |
| T00186676  | 5 | 3 | 6 | 5 | 8 | 5             |
| T00188206  | 6 | 5 | 5 | 3 | 4 | 4             |
| T00188878  | 4 | 1 | 4 | 2 | 4 | 1             |
| T00189598  | 4 | 3 | 3 | 6 | 6 | 4             |
| T00189976  | 5 | 6 | 5 | 5 | 3 | 4             |
| T00190438  | 4 | 5 | 4 | 8 | 7 | 5             |
| T00190572  | 3 | 3 | 5 | 5 | 6 | 3             |
| T00191044  | 7 | 7 | 5 | 7 | 7 | 7             |
| T00191048  | 8 | 7 | 9 | 9 | 7 | 9             |
| T00191125  | 5 | 4 | 4 | 4 | 4 | 3             |
| T00191269  | 5 | 9 | 9 | 9 | 6 | 9             |
| T00193125  | 4 | 7 | 5 | 6 | 2 | 4             |
| T00193188  | 7 | 5 | 3 | 4 | 5 | 4             |
| T00195814  | 8 | 6 | 7 | 6 | 5 | 6             |
| T00196048  | 7 | 3 | 5 | 2 | 6 | 4             |
| T00196385  | 6 | 5 | 3 | 1 | 5 | 3             |
| T00197321  | 6 | 9 | 9 | 9 | 7 | 9             |
| T00197637  | 4 | 5 | 7 | 5 | 2 | 4             |
| T00197786  | 8 | 7 | 4 | 5 | 6 | 6             |
| T00199653  | 2 | 4 | 3 | 6 | 5 | 3             |
| T00202190  | 7 | 8 | 6 | 6 | 7 | 7             |
| T00202321  | 5 | 5 | 4 | 5 | 4 | 4             |
| T00202611  | 4 | 7 | 7 | 7 | 6 | 6             |
| T00202890  | 7 | 3 | 4 | 4 | 3 | 3             |
| T00204321  | 2 | 3 | 5 | 1 | 1 | 1             |
| T00205483  | 6 | 6 | 9 | 4 | 4 | 6             |
| T00206425  | 8 | 3 | 5 | 7 | 7 | 6             |
| T00206792  | 8 | 5 | 5 | 5 | 3 | 5             |
| T00206977  | 3 | 7 | 8 | 4 | 8 | 6             |
| T00207380  | 7 | 3 | 5 | 2 | 4 | 3             |
| T00208450  | 5 | 5 | 8 | 5 | 8 | 6             |
| T00208458  | 3 | 2 | 2 | 4 | 3 | 1             |
| T00208463  | 4 | 4 | 4 | 3 | 5 | 3             |
| T00208533  | 4 | 2 | 4 | 4 | 3 | 2             |
| T00208565  | 5 | 4 | 6 | 4 | 8 | 5             |
| T00208826  | 6 | 6 | 4 | 7 | 5 | 5             |
| T00209219  | 5 | 9 | 9 | 3 | 9 | 7             |
| T00209445  | 5 | 6 | 7 | 6 | 8 | 6             |
| T00209763  | 7 | 5 | 7 | 3 | 8 | 6             |
| T00211755  | 4 | 5 | 3 | 2 | 5 | 2             |
| T00211911  | 8 | 9 | 9 | 9 | 7 | 9             |
| T00212898  | 7 | 6 | 6 | 3 | 6 | 5             |
| T00213802  | 3 | 4 | 4 | 3 | 7 | 3             |
| T00214114  | 4 | 6 | 7 | 7 | 7 | 6             |
| T00214363  | 5 | 3 | 3 | 5 | 4 | 3             |
| T00214691  | 9 | 8 | 8 | 8 | 5 | 8             |
| T00215774  | 6 | 5 | 6 | 3 | 3 | 4             |
| T00216372  | 7 | 5 | 6 | 2 | 1 | 3             |
| T00216907  | 7 | 5 | 6 | 7 | 5 | 6             |
| T00217881  | 9 | 7 | 7 | 7 | 4 | 7             |
| T00218802  | 8 | 4 | 5 | 7 | 4 | 5             |

## Individual Examinee Stanine Scores Sorted Numerically by Student ID

These scores should be interpreted with caution. The ACAT is intended to evaluate an entire group of graduating seniors. The accuracy of scores for individual students, particularly in the separate content areas, is limited. The overall performance score is illustrative of the general performance of each student. Individual student performance can be expected to vary across administrations of the same test and can be affected by numerous factors, including motivation and the circumstances under which the test is administered. Stanines such as those contained in this table are used as general indicators of performance where large measurement errors are possible or where placing individual performance within percentile bands is more meaningful than using specific standard scores and percentiles. The upper percentile limits included in each stanine are as follows: (1) 4.0; (2) 11.0; (3) 23.0; (4) 40.0; (5) 60.0; (6) 77.0; (7) 89.0; (8) 96.0; (9) 100.0. For example, a stanine score of 6 would indicate performance falling between the 60th and 77th percentiles.

| Student ID | 1 | 2 | 3 | 4 | 5 | Overall Score |
|------------|---|---|---|---|---|---------------|
| T00219306  | 8 | 6 | 8 | 4 | 7 | 7             |
| T00228745  | 6 | 3 | 5 | 3 | 4 | 3             |
| T00230723  | 4 | 7 | 4 | 7 | 6 | 5             |
| T00240306  | 7 | 5 | 7 | 6 | 1 | 5             |
| T00241744  | 5 | 4 | 4 | 4 | 7 | 4             |
| T00252826  | 6 | 5 | 4 | 7 | 4 | 5             |
| T00512482  | 2 | 4 | 3 | 4 | 5 | 2             |

1 = Animal Science  
2 = Plant Science  
3 = Soil Science

4 = Agricultural Mechanization  
5 = Agri-Business and Economics

## Item Analysis

1. Responses on each test item are divided into three categories: Correct response; skip (left blank); and incorrect. The total number of responses in each category are given separately for each item on the ACAT. These responses are cumulative from the time at which the item was first used.
2. The discrimination index (discr) is a measure of the relationship between answering a particular item correctly and overall performance in the content area. Positive values indicate students who performed well overall on the area also tended to answer the question correctly. Negative values indicate students who performed well were more likely to answer the item incorrectly.
3. The difficulty index (diff) is the proportion of examinees answering the item correctly. Multiplied by 100, these values indicate the percent of the examinees who have answered the item correctly.

| General (Role/Scope/Hist/Trends) (FORMS A AND B) |         |      |           |       |       | Plant Science (FORMS A AND B) |         |      |           |       |       |
|--|---------|------|-----------|-------|-------|-------------------------------|---------|------|-----------|-------|-------|
| Item   | Correct | Skip | Incorrect | Discr | Diff  | Item                          | Correct | Skip | Incorrect | Discr | Diff  |
| 1.   | 2997    | 353  | 1038      | 0.291 | 0.683 | 1.                            | 3398    | 889  | 4233      | 0.193 | 0.399 |
| 2.   | 2466    | 41   | 374       | 0.315 | 0.856 | 2.                            | 5266    | 635  | 2619      | 0.359 | 0.618 |
| 3.   | 1634    | 289  | 958       | 0.335 | 0.567 | 3.                            | 4372    | 854  | 3294      | 0.229 | 0.513 |
| 4.   | 745     | 261  | 1875      | 0.175 | 0.259 | 4.                            | 6493    | 503  | 1524      | 0.359 | 0.762 |
| 5.   | 678     | 355  | 1848      | 0.159 | 0.235 | 5.                            | 2086    | 1017 | 5417      | 0.207 | 0.245 |
| 6.   | 948     | 92   | 1841      | 0.129 | 0.329 | 6.                            | 1117    | 1315 | 6088      | 0.162 | 0.131 |
| 7.   | 982     | 100  | 1799      | 0.182 | 0.341 | 7.                            | 3303    | 1258 | 3959      | 0.219 | 0.388 |
| 8.   | 1221    | 76   | 1584      | 0.271 | 0.424 | 8.                            | 2370    | 1031 | 5119      | 0.236 | 0.278 |
| 9.   | 1906    | 604  | 2049      | 0.215 | 0.418 | 9.                            | 3038    | 1549 | 3933      | 0.279 | 0.357 |
| 10.  | 2815    | 287  | 1457      | 0.187 | 0.617 | 10.                           | 4441    | 750  | 3329      | 0.353 | 0.521 |
| 11.  | 2068    | 469  | 2022      | 0.279 | 0.454 | 11.                           | 3658    | 949  | 3913      | 0.294 | 0.429 |
| 12.  | 4149    | 174  | 236       | 0.274 | 0.910 | 12.                           | 5391    | 767  | 2362      | 0.252 | 0.633 |
| 13.  | 2148    | 1057 | 1354      | 0.312 | 0.471 | 13.                           | 6252    | 317  | 1951      | 0.327 | 0.734 |
| 14.  | 3781    | 52   | 726       | 0.113 | 0.829 | 14.                           | 1971    | 1410 | 5139      | 0.251 | 0.231 |
| 15.  | 2191    | 520  | 1848      | 0.235 | 0.481 | 15.                           | 4236    | 646  | 3638      | 0.236 | 0.497 |
| 16.  | 2319    | 666  | 1574      | 0.253 | 0.509 | 16.                           | 2386    | 1532 | 4602      | 0.201 | 0.280 |
| 17.  | 2353    | 335  | 1700      | 0.229 | 0.536 | 17.                           | 2946    | 1264 | 4310      | 0.276 | 0.346 |
| Animal Science (FORMS A AND B)                   |         |      |           |       |       | 18.                           | 4199    | 521  | 3800      | 0.282 | 0.493 |
| Item   | Correct | Skip | Incorrect | Discr | Diff  | 19.                           | 6241    | 473  | 1806      | 0.284 | 0.733 |
| 1.   | 5008    | 671  | 2841      | 0.326 | 0.588 | 20.                           | 4471    | 528  | 3521      | 0.215 | 0.525 |
| 2.   | 7093    | 494  | 933       | 0.486 | 0.833 | 21.                           | 3233    | 954  | 4333      | 0.229 | 0.379 |
| 3.   | 6047    | 347  | 2126      | 0.462 | 0.710 | 22.                           | 5409    | 517  | 2594      | 0.283 | 0.635 |
| 4.   | 6726    | 316  | 1478      | 0.454 | 0.789 | 23.                           | 3341    | 1315 | 3864      | 0.246 | 0.392 |
| 5.   | 4482    | 875  | 3163      | 0.326 | 0.526 | 24.                           | 4136    | 749  | 3635      | 0.339 | 0.485 |
| 6.   | 6569    | 458  | 1493      | 0.384 | 0.771 | 25.                           | 2297    | 1040 | 5012      | 0.234 | 0.275 |
| 7.   | 3663    | 479  | 4378      | 0.344 | 0.430 | 26.                           | 3114    | 488  | 4747      | 0.257 | 0.373 |
| 8.   | 4112    | 533  | 3875      | 0.344 | 0.483 | 27.                           | 5483    | 549  | 2317      | 0.316 | 0.657 |
| 9.   | 4174    | 969  | 3377      | 0.433 | 0.490 | 28.                           | 6979    | 416  | 954       | 0.338 | 0.836 |
| 10.  | 1409    | 46   | 707       | 0.402 | 0.652 | 29.                           | 3325    | 536  | 4488      | 0.161 | 0.398 |
| 11.  | 964     | 20   | 1191      | 0.378 | 0.443 | 30.                           | 4957    | 911  | 2481      | 0.340 | 0.594 |
| 12.  | 1207    | 9    | 959       | 0.234 | 0.555 | 31.                           | 2590    | 1220 | 4539      | 0.200 | 0.310 |
| 13.  | 1470    | 36   | 656       | 0.383 | 0.680 | 32.                           | 1641    | 538  | 6170      | 0.057 | 0.197 |
| 14.  | 1325    | 33   | 817       | 0.365 | 0.609 | 33.                           | 1134    | 641  | 6574      | 0.075 | 0.136 |
| 15.  | 1759    | 47   | 356       | 0.267 | 0.814 | 34.                           | 5362    | 694  | 2293      | 0.295 | 0.642 |
| 16.  | 938     | 22   | 1215      | 0.357 | 0.431 | 35.                           | 4004    | 1027 | 3318      | 0.370 | 0.480 |
| 17.  | 1169    | 31   | 975       | 0.371 | 0.537 | Soil Science (FORMS A AND B)  |         |      |           |       |       |
| 18.  | 1272    | 27   | 863       | 0.296 | 0.588 | Item                          | Correct | Skip | Incorrect | Discr | Diff  |
| 19.  | 1677    | 4    | 494       | 0.340 | 0.771 | 1.                            | 7181    | 211  | 1128      | 0.292 | 0.843 |
| 20.  | 1213    | 31   | 918       | 0.447 | 0.561 | 2.                            | 1131    | 20   | 1011      | 0.342 | 0.523 |
| 21.  | 1815    | 28   | 319       | 0.161 | 0.840 | 3.                            | 1636    | 37   | 502       | 0.309 | 0.752 |
| 22.  | 1238    | 66   | 871       | 0.439 | 0.569 | 4.                            | 5227    | 563  | 2730      | 0.362 | 0.613 |
| Genetics (FORMS A AND B)                         |         |      |           |       |       | 5.                            | 1044    | 48   | 1070      | 0.344 | 0.483 |
| Item   | Correct | Skip | Incorrect | Discr | Diff  | 6.                            | 647     | 50   | 1478      | 0.466 | 0.297 |
| 1.   | 2220    | 605  | 1487      | 0.147 | 0.515 | 7.                            | 5819    | 694  | 2007      | 0.272 | 0.683 |
| 2.   | 1216    | 708  | 2388      | 0.157 | 0.282 | 8.                            | 1540    | 19   | 603       | 0.430 | 0.712 |
| 3.   | 3534    | 228  | 550       | 0.289 | 0.820 | 9.                            | 1961    | 9    | 205       | 0.318 | 0.902 |
| 4.   | 1494    | 674  | 1973      | 0.228 | 0.361 | 10.                           | 4555    | 543  | 3422      | 0.286 | 0.535 |
| 5.   | 2707    | 467  | 1138      | 0.338 | 0.628 | 11.                           | 6033    | 1143 | 1344      | 0.452 | 0.708 |
| 6.   | 1813    | 904  | 1595      | 0.368 | 0.420 | 12.                           | 1037    | 48   | 1077      | 0.353 | 0.480 |
| 7.   | 1841    | 320  | 2151      | 0.244 | 0.427 | 13.                           | 4432    | 483  | 3605      | 0.295 | 0.520 |
| 8.   | 1524    | 625  | 2163      | 0.236 | 0.353 | 14.                           | 619     | 46   | 1497      | 0.372 | 0.286 |
| 9.   | 840     | 586  | 2715      | 0.211 | 0.203 | 15.                           | 4397    | 494  | 3629      | 0.247 | 0.516 |
| 10.  | 2150    | 361  | 1630      | 0.263 | 0.519 | 16.                           | 957     | 21   | 1184      | 0.355 | 0.443 |
| 11.  | 1558    | 206  | 927       | 0.337 | 0.579 | 17.                           | 3846    | 1799 | 2875      | 0.306 | 0.451 |
| 12.  | 849     | 261  | 1581      | 0.250 | 0.315 | 18.                           | 914     | 59   | 1189      | 0.358 | 0.423 |
| 13.  | 947     | 233  | 1511      | 0.360 | 0.352 | 19.                           | 3213    | 1810 | 3497      | 0.297 | 0.377 |
| 14.  | 1814    | 243  | 634       | 0.306 | 0.674 | 20.                           | 1395    | 19   | 761       | 0.302 | 0.641 |
|  |         |      |           |       |       | 21.                           | 1103    | 53   | 1019      | 0.486 | 0.507 |
|  |         |      |           |       |       | 22.                           | 4655    | 1014 | 2851      | 0.367 | 0.546 |
|  |         |      |           |       |       | 23.                           | 1170    | 42   | 950       | 0.450 | 0.541 |
|  |         |      |           |       |       | 24.                           | 1402    | 36   | 737       | 0.370 | 0.645 |
|  |         |      |           |       |       | 25.                           | 5091    | 293  | 3136      | 0.332 | 0.598 |
|  |         |      |           |       |       | 26.                           | 2959    | 1913 | 3648      | 0.339 | 0.347 |
|  |         |      |           |       |       | 27.                           | 3291    | 1578 | 3651      | 0.395 | 0.386 |
|  |         |      |           |       |       | 28.                           | 2347    | 451  | 5722      | 0.229 | 0.275 |

# Item Analysis (continued)

## Agricultural Mechanization (FORMS A AND B)

| Item | Correct | Skip | Incorrect | Discr | Diff  |
|------|---------|------|-----------|-------|-------|
| 1.   | 2439    | 786  | 1980      | 0.189 | 0.469 |
| 2.   | 1769    | 817  | 2448      | 0.308 | 0.351 |
| 3.   | 1870    | 975  | 2360      | 0.302 | 0.359 |
| 4.   | 4386    | 183  | 636       | 0.281 | 0.843 |
| 5.   | 1895    | 684  | 2626      | 0.250 | 0.364 |
| 6.   | 2894    | 712  | 1599      | 0.386 | 0.556 |
| 7.   | 1364    | 986  | 2684      | 0.218 | 0.271 |
| 8.   | 2200    | 675  | 2159      | 0.367 | 0.437 |
| 9.   | 1932    | 935  | 2167      | 0.285 | 0.384 |
| 10.  | 2184    | 712  | 2138      | 0.327 | 0.434 |
| 11.  | 1243    | 1099 | 2692      | 0.286 | 0.247 |
| 12.  | 964     | 429  | 2191      | 0.204 | 0.269 |
| 13.  | 2259    | 274  | 1051      | 0.367 | 0.630 |
| 14.  | 1225    | 376  | 1983      | 0.224 | 0.342 |

## Agri-Business and Economics (FORMS A AND B)

| Item | Correct | Skip | Incorrect | Discr | Diff  |
|------|---------|------|-----------|-------|-------|
| 1.   | 4823    | 569  | 2778      | 0.242 | 0.590 |
| 2.   | 4053    | 460  | 3657      | 0.190 | 0.496 |
| 3.   | 3091    | 1714 | 3365      | 0.268 | 0.378 |
| 4.   | 6960    | 255  | 955       | 0.270 | 0.852 |
| 5.   | 7454    | 298  | 418       | 0.306 | 0.912 |
| 6.   | 4635    | 851  | 2684      | 0.212 | 0.567 |
| 7.   | 1168    | 24   | 874       | 0.315 | 0.565 |
| 8.   | 1042    | 78   | 958       | 0.096 | 0.501 |
| 9.   | 1762    | 976  | 5432      | 0.165 | 0.216 |
| 10.  | 3434    | 666  | 4070      | 0.202 | 0.420 |
| 11.  | 2886    | 1133 | 4151      | 0.242 | 0.353 |
| 12.  | 2891    | 639  | 4640      | 0.212 | 0.354 |
| 13.  | 5007    | 721  | 2442      | 0.282 | 0.613 |

## Ag. Educ - Ext - Rural Soc. (FORMS A AND B)

| Item | Correct | Skip | Incorrect | Discr | Diff  |
|------|---------|------|-----------|-------|-------|
| 1.   | 4953    | 224  | 488       | 0.205 | 0.874 |
| 2.   | 5114    | 102  | 449       | 0.202 | 0.903 |
| 3.   | 2477    | 934  | 2254      | 0.268 | 0.437 |
| 4.   | 2713    | 252  | 2700      | 0.057 | 0.479 |
| 5.   | 3386    | 443  | 1665      | 0.156 | 0.616 |
| 6.   | 3997    | 218  | 1279      | 0.221 | 0.728 |
| 7.   | 891     | 1416 | 3187      | 0.131 | 0.162 |
| 8.   | 3931    | 236  | 1327      | 0.235 | 0.716 |
| 9.   | 3524    | 82   | 329       | 0.234 | 0.896 |
| 10.  | 1212    | 204  | 2519      | 0.178 | 0.308 |
| 11.  | 3233    | 163  | 539       | 0.338 | 0.822 |
| 12.  | 2714    | 294  | 927       | 0.347 | 0.690 |
| 13.  | 3001    | 292  | 642       | 0.353 | 0.763 |
| 14.  | 1757    | 203  | 1975      | 0.218 | 0.447 |

## Forestry and Wildlife (FORMS A AND B)

| Item | Correct | Skip | Incorrect | Discr | Diff  |
|------|---------|------|-----------|-------|-------|
| 1.   | 2842    | 677  | 877       | 0.223 | 0.646 |
| 2.   | 1220    | 839  | 2337      | 0.167 | 0.278 |
| 3.   | 1665    | 813  | 1747      | 0.296 | 0.394 |
| 4.   | 2404    | 662  | 1159      | 0.319 | 0.569 |
| 5.   | 1227    | 1004 | 1994      | 0.299 | 0.290 |
| 6.   | 3210    | 580  | 435       | 0.424 | 0.760 |
| 7.   | 1745    | 610  | 1870      | 0.271 | 0.413 |
| 8.   | 776     | 795  | 2654      | 0.199 | 0.184 |
| 9.   | 684     | 943  | 2598      | 0.213 | 0.162 |
| 10.  | 2917    | 659  | 649       | 0.439 | 0.690 |
| 11.  | 840     | 212  | 1723      | 0.169 | 0.303 |
| 12.  | 1994    | 219  | 562       | 0.358 | 0.719 |
| 13.  | 369     | 336  | 2070      | 0.148 | 0.133 |
| 14.  | 1364    | 276  | 1135      | 0.282 | 0.492 |
| 15.  | 580     | 225  | 1970      | 0.171 | 0.209 |
| 16.  | 1057    | 339  | 1379      | 0.385 | 0.381 |
| 17.  | 1078    | 384  | 1313      | 0.364 | 0.388 |
| 18.  | 1719    | 311  | 745       | 0.477 | 0.619 |

**California Critical Thinking Skills Test- General Exit Exam**

| MAJOR     | 2015-2016 |      | 2016-2017 |     | 2017-2018 |      | 2018-2019 |    | 2019-2020 |    |
|-----------|-----------|------|-----------|-----|-----------|------|-----------|----|-----------|----|
|           | Mean      | N*   | Mean      | N*  | Mean      | N*   | Mean      | N* | Mean      | N* |
| ACCT      | 18.7      | 69   | 16.7      | 78  | 20.0      | 56   |           |    |           |    |
| AGRI      | 17.2      | 59   | 18.7      | 46  | 15.7      | 47   |           |    |           |    |
| ART       | 16.3      | 15   | 16.7      | 22  | 13.0      | 9    |           |    |           |    |
| BBUS      | 17.9      | 8    | 14.5      | 2   | **        | **   |           |    |           |    |
| BIOL      | 17.9      | 27   | 16.7      | 82  | 18.0      | 48   |           |    |           |    |
| BMGT      | 17.4      | 77   | 18.9      | 133 | 19.5      | 101  |           |    |           |    |
| CE        | 16.2      | 26   | 15.0      | 38  | 19.0      | 51   |           |    |           |    |
| CEE       | 16.5      | 16   | 15.0      | 38  | **        | **   |           |    |           |    |
| CFS       | 16.3      | 20   | **        | **  | **        | **   |           |    |           |    |
| CHE       | 15.0      | 45   | 16.4      | 62  | 21.1      | 43   |           |    |           |    |
| CHEM      | 20.3      | 10   | 16.5      | 40  | 20.8      | 22   |           |    |           |    |
| CMPE      | 17.4      | 16   | 13.8      | 14  | 24.0      | 11   |           |    |           |    |
| COM       | 19.6      | 11   | 16.1      | 41  | 15.9      | 22   |           |    |           |    |
| CSC       | 15.6      | 33   | 15.8      | 49  | 23.2      | 49   |           |    |           |    |
| ECE/ECED  | 16.0      | 2    | **        | **  | 12.8      | 4.00 |           |    |           |    |
| ECON      | 19.7      | 6    | 16.7      | 11  | 20.5      | 13   |           |    |           |    |
| EE        | 16.5      | 30   | 15.5      | 57  | 17.7      | 19   |           |    |           |    |
| ENG       | 14.5      | 10   | 16.4      | 19  | 17.7      | 19   |           |    |           |    |
| ENGR      | 14.5      | 6    | **        | **  | **        | **   |           |    |           |    |
| ET        | 14.4      | 27   | 16.5      | 46  | 17.9      | 49   |           |    |           |    |
| EXPW      | 16.9      | 101  | 16.4      | 108 | 15.0      | 71   |           |    |           |    |
| FIN       | 18.4      | 28   | 20.1      | 33  | 19.5      | 36   |           |    |           |    |
| FL        | 17.2      | 5    | 16.0      | 3   | 17.4      | 5    |           |    |           |    |
| GEOS      | 13.5      | 4    | 15.1      | 16  | 20.2      | 13   |           |    |           |    |
| HEC       | 16.2      | 53   | 17.0      | 34  | 14.3      | 45   |           |    |           |    |
| HIBA      | 6.5       | 2    | 14.0      | 2   | 19.3      | 3    |           |    |           |    |
| HIBS      | 19.3      | 4    | 15.3      | 7   | 18.3      | 9    |           |    |           |    |
| IBAC      | 18.0      | 4    | 25.0      | 4   | 20.1      | 9    |           |    |           |    |
| LIST      | 15.2      | 59   | 17.0      | 60  | 15.1      | 44   |           |    |           |    |
| MATH      | 18.4      | 7    | 16.5      | 13  | 22.0      | 7    |           |    |           |    |
| MDS       | 16.7      | 19   | 16.8      | 79  | 10.0      | 3    |           |    |           |    |
| ME        | 16.3      | 105  | 16.4      | 114 | 21.0      | 101  |           |    |           |    |
| MKT       | 20.7      | 43   | 20.3      | 44  | 19.9      | 32   |           |    |           |    |
| MUS       | 16.1      | 20   | 18.1      | 31  | 14.8      | 10   |           |    |           |    |
| NURS      | 15.9      | 90   | 19.7      | 57  | 17.1      | 105  |           |    |           |    |
| PHYS      | **        | **   | 15.7      | 3   | **        | **   |           |    |           |    |
| PMED      | **        | **   | 21.0      | 1   | **        | **   |           |    |           |    |
| POLS      | 17.2      | 18   | 16.5      | 15  | 20.1      | 8    |           |    |           |    |
| PSY       | 19.9      | 16   | 16.4      | 45  | 14.8      | 34   |           |    |           |    |
| SEED      | 16.3      | 6    | 16.8      | 37  | 16.5      | 4    |           |    |           |    |
| SOC       | 19.7      | 26   | 16.2      | 62  | 15.4      | 44   |           |    |           |    |
| SPE       | 15.7      | 6    | 15.3      | 9   | **        | **   |           |    |           |    |
| WFS       | 15.8      | 42   | 15.5      | 52  | 15.0      | 28   |           |    |           |    |
| TTU Total | 16.9      | 1485 |           |     | 17.6      | 1295 |           |    |           |    |
| CCTST     | ~17.1     |      | ~16.2     |     | ~16.2     |      |           |    |           |    |

\*Total Cohort of Graduating Seniors for Academic Year

\*\*No Data Available

\*\* Business Majors testing with different version/scale; Converted scale presented

### SOA Fall and Spring Clinics (2013-2018)

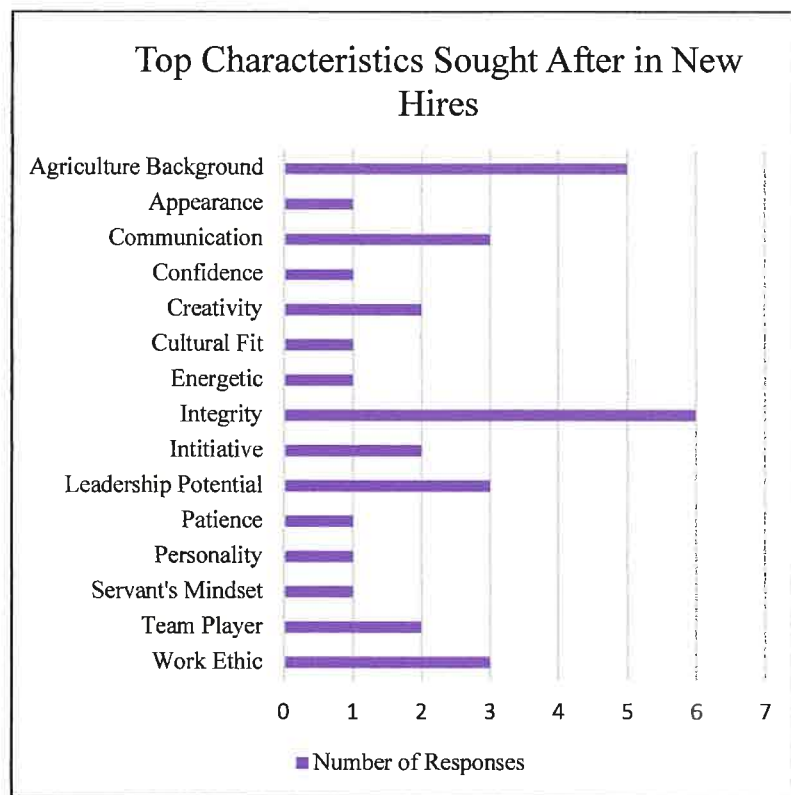
|        |                     | 2013       | 2014       | 2015       | 2016       | 2017       | 2018       | Total       |
|--------|---------------------|------------|------------|------------|------------|------------|------------|-------------|
| Spring | Poultry             |            |            | 70         | 22         | 87         | 86         | 265         |
|        | Livestock           |            | 57         | 60         | 158        | 185        | 203        | 663         |
|        | Extemp Speaking     |            |            |            | 11         |            |            | 11          |
|        | Parli Pro           |            |            |            | 70         |            |            | 70          |
|        | Nursery Landscape   |            |            |            |            | 40         | 36         | 76          |
|        | Hort                |            |            |            | 48         |            |            | 48          |
|        | Flori               |            |            |            |            |            | 67         | 67          |
|        | Employment          |            |            |            |            | 10         |            | 10          |
|        | Vet Science         |            |            |            |            |            | 109        | 109         |
|        | <b>Total Spring</b> |            | <b>57</b>  | <b>130</b> | <b>309</b> | <b>322</b> | <b>501</b> | <b>1319</b> |
| Fall   | Horse               | 131        | 110        | 197        | 203        | 210        | 138        | 989         |
|        | Poultry             |            |            | 84         |            |            |            | 84          |
|        | Bee                 |            |            |            | 18         | 18         |            | 36          |
|        | Nursery Landscape   |            |            |            |            |            | 6          | 6           |
|        | Hort                |            |            | 10         | 48         |            |            | 58          |
|        | Flori               |            |            |            |            | 43         | 40         | 83          |
|        | Soils               |            |            |            |            |            | 99         | 99          |
|        | Parli Pro           |            |            |            |            | 63         | 49         | 112         |
|        | Officer Development |            |            |            |            | 39         |            | 39          |
|        | <b>Total Fall</b>   | <b>131</b> | <b>110</b> | <b>291</b> | <b>269</b> | <b>373</b> | <b>332</b> | <b>1506</b> |
|        | <b>Totals</b>       | <b>131</b> | <b>167</b> | <b>421</b> | <b>578</b> | <b>695</b> | <b>833</b> | <b>2825</b> |

## Important Employability Skills of University Graduates as Perceived by Industry Leaders

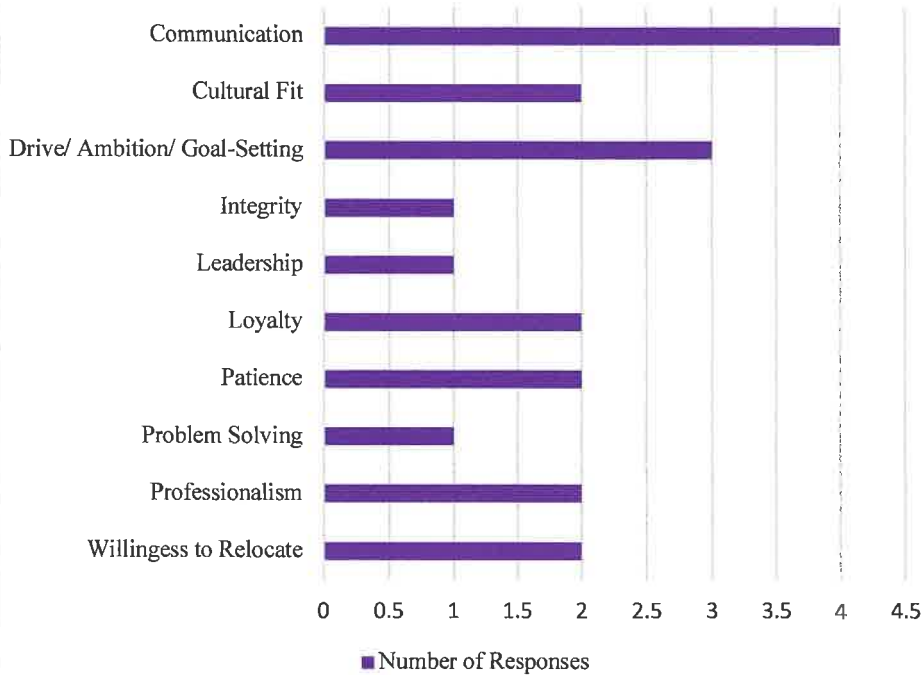
Marisa Phelps (undergraduate) and Dr. Dennis Duncan

This study was conducted amongst 17 prominent, global employers in the agriculture and food industries in order to magnify what qualities pique their interest as well as what strikes them as opportunities for improvement in recent college graduates.

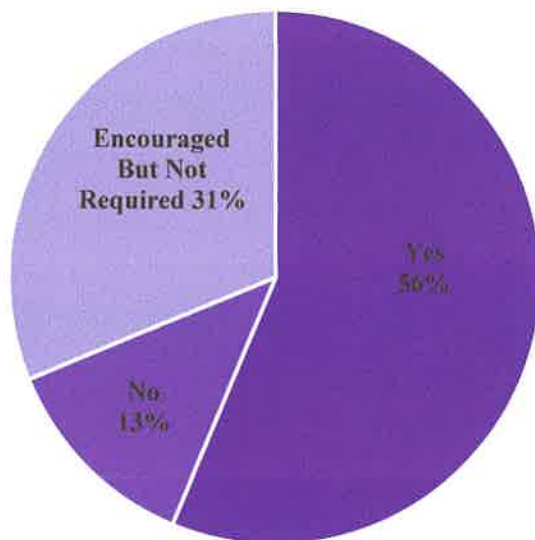
Respondents represented the following companies: TN Farm Bureau, TN Farmers Coop, TN Department of Agriculture, Farm Credit, Perdue Foods, Zaxby's, Chick-fil-A, TriGreen Equipment, H&R Agri-Power, Yanmar International, and TN Poultry Association.



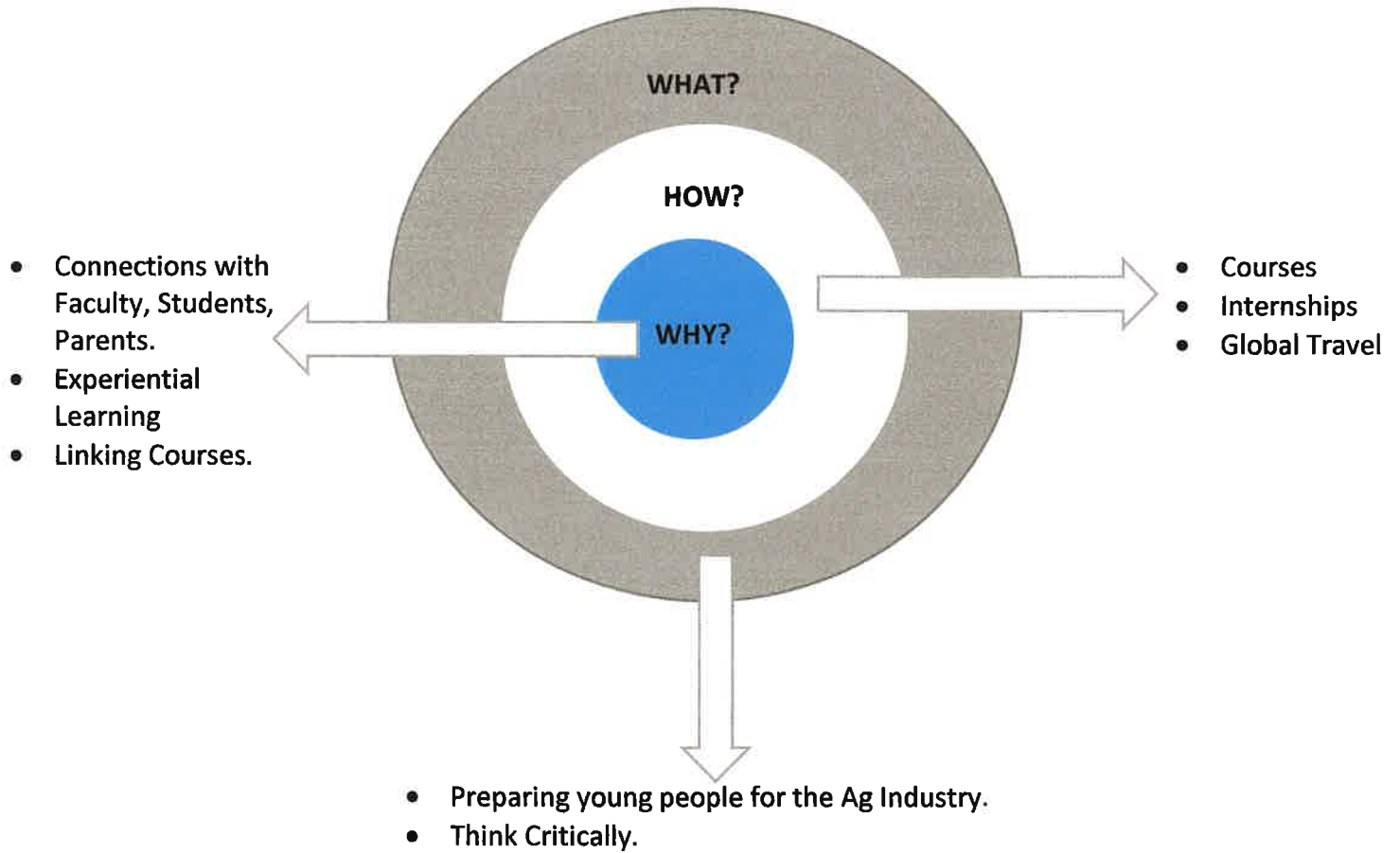
### Top Characteristics Lacking in New Hires



### Should an internship be required of all School of Agriculture students?



**Strategic Planning – SOA  
2019**



## **Strategic Goal: Education for Life**

1 A. Incorporate multiple Experiential Learning opportunities in all undergraduate programs.

Priority: Labs, Internships, global travel, clubs that are tied into concentrations.

B. Created SOA Core: Leadership professionalism, communication, critical thinking, career-value reputation, and online courses.

C. Develop and expand experiences that emphasize diversity, build global awareness, and increase international travel, study abroad, AGET, and Poultry.

List specific programs including countries X, Y, Z.

Drive 255 grant – Poultry Program

List H.I.P's Utilized in the SOA

D. Develop innovative, stackable credentials and associated pathways to be responsive to stakeholder needs and entrepreneur opportunities. Along with industry certification, AGET courses tied to industry standard certification program, leadership and service, developing credentials with Google and Apple certification, and education technology expert.

Master and PHD: curriculum offerings.

Could we get industry certification from John Deere, Case- IH, CO-OP, ect?

Agronomy society, SAE.

List certifications in each pathway.

### **Strategic Goal: Innovate in All We Do**

2 A. Implement current Technology for each discipline and improve the technology available in our teaching facilities.

Tech-Infused programs: AGET, Poultry Science, 5G technology- Livestock locater technology, 21<sup>st</sup> Century teaching facilities, energy consumption, recycling and composting facility.

B. Increase research, scholarly activities, intellectual and creative work, and undergraduate research and graduate research with faculty, multi-disciplinary animal, crop, and poultry science.

\*Promote undergraduate and graduate project assignment. (Maybe include a research project assignment in our courses) Dr. Branson did this\*\*

\*SOA specific student research day

\*Faculty Frameworks on SOA website.

\*Poster sessions in multiple courses.

C. Offering on-line courses, expanding on-line courses and offer courses on satellite campuses (Lawrenceburg). Offer adult learning opportunities through continuing credit, workshops, seminars, etc.

Serve Adult Learners

-Annual Bi-Annual Needs Assessment (PD workshops based on results)

-Develop continuing education certificates for Adult Learners?

D. Faculty collaboration across disciplines reward.

Recruit, hire, retain, and reward diverse faculty without demonstrated commitment to collaborate, external engagement, and life-long learning.

-Showcase collaboration efforts, external engagements, and faculty PD.

### **Strategic Goal: Exceptional Stewardship**

3 A. Build stronger relationships with industry leaders, alumni endorsements. Look at first generation students earned and rewarded in scholarships. Increase alumni relation. (scholarship committee)

B. Rebuild current SOA recruitment plan, create more streamline process in Director's office- between faculty, staff, and directors.

(Build a survey for SOAR to id why applicants are up)

C. Create a budget model for SOA that incorporates annual TTU funding to SOA, student access fee's, Foundation Funds, lab fee's.

(\*\* Ask faculty for ideas on building bridges with alumni)

### **Strategic Goal: Engagement for Impact**

4 A. Develop new certificate programs; continuing education credits through workshops, seminars, etc. - in collaboration with industry, non-profit, Cooperative Extension.

B. Develop needs assessment tools to gauge community needs, wants, and interests.

C. Develop new "Centers" in SOA that serve as hubs for innovation, creativity, and employment opportunities.

D. Results of broad needs assessments and logic model tools used to create sustainable partnerships. (food industry, engineering, horticulture, etc.)

E. Develop new programming and opportunities to engage alumni and stakeholders.