

# Virginia FFA Guide



Virginia FFA does not discriminate against employees, students, or applicants on the basis of race, color, sex, sexual orientation, disability, age, veteran status, national origin, religion, or political affiliation.

*The Virginia FFA Association is a resource and support organization that does not select, control, or supervise local chapter or individual member activities except as expressly provided for in the state FFA constitution, bylaws, or policies.*

# LIVESTOCK EVALUATION

## **Philosophy for Virginia FFA Career Development Events**

Students are important customers of agricultural education and the FFA who recognize quality and value in products and activities. When provided an opportunity to fashion their educational experiences, they generally make wise decisions based on needs, perceptions, image and the opinions of others influence students. They value change based on their perceived personal needs as well as the needs of others. They sometimes value change for the sake of variety. Adults are concerned about the experiences of students and want to help organize experiences that will meet the future needs of students while accomplishing the purposes of agricultural education and the FFA organization. The Virginia FFA Association should assume the leadership role in developing and continuously improving relevant FFA career development events and awards. Although the Virginia FFA Association should be aware of the needs of local chapters and should react to those needs, it should help initiate opportunities that reflect relevant and emerging technology.

Virginia FFA career development events and awards should be developed with significant input from FFA members, teachers, partners, respective industry sponsors, and others involved in agricultural education. Virginia career development events and awards should reflect instruction that currently takes place in the entire agricultural education program, including classroom instruction, laboratory instruction, individualized instruction, and/or supervised agricultural experience. However, it is appropriate for the state organization to develop career development events and awards that stimulate instruction in emerging areas that reflect both current and future community, national, and global work force needs. The authority for insuring the relevance of an FFA activity is ultimately vested in the Virginia FFA Advisory Council.

The state association should promote individual, chapter, and team career development events and awards. Chapter and team career development events and awards should be based on cooperation and teamwork while recognizing the value of competition and individual achievement. The role of career development events and awards is to motivate students and encourage leadership, personal growth, citizenship, and career development.

Students should be recognized for achievement in career development events and awards. Quality standards should be used as a basis for achievement. The state association should ensure that the recognition is appropriate and meaningful. Recognition for achievement should be reflective of the total effort required by the chapter/team/individual and should take place at all levels of participation.

The Virginia FFA Association shall encourage accessibility and provide opportunities for achievement and recognition for students with diverse backgrounds. High expectations should be consistently communicated to those who are involved in career development events and awards.

## **GENERAL RULES and OFFICIAL POLICIES**

*Violations of any of the following rules may be grounds for the event superintendent to disqualify the participants.*

State FFA Staff and CDE Superintendents will use the published rules and procedures to organize and implement the State FFA Career Development Events. Event activities may not be conducted due to lack of necessary materials, expertise or extreme impact to event budgets.

### **TEAM ACTIVITIES**

The primary goal of team career development events and awards is to develop individual responsibilities, foster teamwork, and promote communications while recognizing the value of ethical competition and the value of individual achievement. A team career development event/award requires two or more members from one chapter working cooperatively. Team career development events and awards are intended to be an outgrowth of instruction.

Team career development events and awards should:

- include problem solving and critical thinking.
- promote an appreciation for diversity by reducing barriers to participation.
- promote new directions and focus on future needs of members and society.
- include cooperative activities.
- encourage broad participation among members and recognize excellence within levels of experience.
- recognize individual and team achievement, develop general leadership, and recognize levels of ability.
- provide local recognition for superior performance at the state and national level.

### **ELIGIBILITY OF PARTICIPANTS**

- 1) Each participant must be a current bona fide dues paying FFA member in good standing with the local chapter, state FFA association, and the National FFA Organization at the time of the career development event (or by May 1 for the Virginia FFA, whichever date comes first.) In the event a participant's name is not on the chapter's official roster for the years in which the dues were payable to the National FFA Organization, a past due membership processing fee of \$35, in addition to the dues must be paid.
- 2) The participant, in a State Senior Career Development Event, must be:
  - a. A high school FFA member, (a graduating senior is considered eligible to compete in state career development events the convention directly after graduation.)  
(High school refers to grades 9-12.)
  - b. A middle school team consisting of all 8<sup>th</sup> grade FFA members.
  - c. While in school, be enrolled in at least one agricultural education course during the school year and/or follow a planned course of study; either course must include a supervised agricultural experience program, the objective of which is preparation for an agricultural career. For this purpose a student needs to be enrolled in at least one agricultural education course during the year they qualified for the event. If the student was previously enrolled in an agriculture class and was an FFA member, they may compete in a contest if they have scheduling issues (ex. Advanced Placement classes) that do not allow them be enrolled in an agriculture class but they must still have an SAE.
- 3) The participant in a State Junior Career Development Event must be:
  - a. at the time of the state competition has qualified as either a 7<sup>th</sup>, 8<sup>th</sup> or 9<sup>th</sup> grade member.
  - b. While in school, be enrolled in at least one agricultural education course during the school year and/or follow a planned course of study; either course must include a supervised agricultural experience program, the objective of which is preparation for an agricultural career. For this purpose a student needs to be enrolled in at least one agricultural education course during the year they qualified for the event.
- 4) The participant in a State Middle School Career Development Event must be:
  - a. At the time of the state competition has qualified as either a 6<sup>th</sup>, 7<sup>th</sup> or 8<sup>th</sup> grade member.
  - b. While in school, be enrolled in at least one agricultural education course during the school year and/or follow a planned course of study; either course must include a supervised agricultural experience program, the objective of which is preparation for an agricultural career. For this purpose a student needs to be enrolled in at least one agricultural education course during the year they qualified for the event.

- 5) To compete in the creed speaking event, the member has qualified as either a 7<sup>th</sup>, 8<sup>th</sup> or 9<sup>th</sup> grader by state convention.
- 6) CDE participants who start an event and do not complete the event without notifying event officials at the time of departure will be disqualified. This can affect the overall team rank and position. In some events this will also disqualify the entire team
- 7) The state supervisor/executive secretary of agricultural education must certify that participants are eligible. If an ineligible student is entered in any career development event, the entire team of which that student is a member may be declared ineligible.
- 8) The first contest that a school wins in the current year will be the contest that the individuals on that team will represent Virginia at the National FFA Convention. To explain, if an FFA chapter puts more than one current winner of an FFA contest on an additional team, then the second place team will be declared the State Winner and will compete at the National FFA Convention. If one person is a duplicate and the National rules allow for a three-person team, then the first place team will represent Virginia. If a student that wins a contest is declared ineligible, or cannot attend the Convention, then the other members of the team will be allowed to compete for individual awards only. (A medical waiver may be granted if a member of a winning team is unable to attend due to a medical condition.)
- 9) Individuals who have been state winners or have represented the state in any official national FFA career development event are not eligible to enter the same FFA event again. However, FFA junior division state winners are eligible for state senior division. Individuals on a state winning team cannot compete in that division again.
- 10) A chapter may enter any number of career development events; however, a chapter may have no more than one team in each division in each event.

### **CHECK-IN**

Participants will check-in at the state FFA convention as indicated in the annual State Guidelines. Dates, hours and place of check-in will be sent annually to the agricultural education teacher. All participants will be given an identification number by which they will be designated throughout the event.

### **ADDITIONAL OPERATIONAL PROCEDURES AND POLICIES**

- 1) **Emergency Conditions:** Under emergency conditions, a state team participating in a Virginia FFA Career Development Event may be made up of less than the required members. Fewer than the required number could compete if an emergency condition such as illness, death in the family or an act of God would occur. Those individuals competing would still be eligible to qualify for individual awards.
- 2) Event committees will strive to divide teams into groups so that no two participants from a team will be in the same group. In any case, no two members will be placed side-by-side.
- 3) **Disqualification:**
  - a. Any communication, verbal or non-verbal between participants during a career development event will be sufficient cause to eliminate the team member involved from the career development event. The only exception to this would be communication between team members during the team activity portion of a given career development event.
  - b. Teams arriving after the career development event has begun may be disqualified or penalized. No member substitutions may be made after the career development event begins.
  - c. Any assistance given to a team member from any source other than the career development event officials or assistants will be sufficient cause to eliminate the team from the career development event.
  - d. Event superintendents may stop any participant if they deem their manner to be hazardous either to themselves or others. Such stoppage shall deem the individuals disqualified for that section of the career development event.
  - e. CDE participants who start an event and do not complete the event without notifying event officials at the time of departure will be disqualified. This can affect the overall team rank and position. In some events this will also disqualify the entire team.
  - f. Participants will not be allowed to utilize personal electronic communication devices, other than those approved by the event officials, during the entire course of the event. Participants who access personal electronic communication devices without prior approval of the event officials will be disqualified.

- 4) Advisors
  - a. Advisors are not allowed to be in contact with their students at any point or time during the competition.
  - b. Advisors may only be allowed at the contest site if they are assigned to supervise a group or part of the contest
- 5) Participants are expected to observe the National FFA Code of Ethics and the Proper Use of the FFA Jacket during the career development events. (Please see the latest edition of the Official FFA Manual.)
- 6) Official FFA dress is highly recommended for all participants where appropriate and is required for the awards presentation and recognition.
- 7) Participants or advisors will not be allowed in the career development event area as designated in the specific career development event rules. Infractions of this statement may result in team disqualification.
- 8) Accessibility for all students—all special needs requests should be submitted two weeks prior to the event for scheduling of assistance during event.
- 9) Results of all Virginia State FFA Career Development Events will be announced during sessions at State Convention.

### **TEAM AND INDIVIDUAL AWARDS**

The ranking of teams and individuals in each of the career development events will be on the basis of three logical groups within the total range of scores. Awards will be distributed to the winning teams and individuals at award programs following the completion of the career development events.

### **VIRGINIA FFA ADVISORY COUNCIL**

Purpose: To advise the State Staff on issues impacting both FFA Career Development Events and Awards to ensure:

- 1) All activities are consistent with industry needs.
- 2) All activities are available to all members.
- 3) All activities are conducted openly, fairly and in a quality manner.
- 4) Cooperation among various activities occurs, to the degree possible, to promote the interconnectedness of agriculture (i.e. forestry and agricultural mechanics or farm business management and dairy or livestock) and agricultural education (classroom, SAE, FFA).
- 5) New and innovative activities are being put forward for consideration.
- 6) As many students as possible have the opportunity to participate.
- 7) A constant process of local advisor in-service on proper use of these activities as tools for learning is being championed.
- 8) All activities are operated consistently with Advisory Council policy.
- 9) Activities are conducted within available budgets approved by the FFA Advisory Council and, if appropriate, Virginia FFA Foundation Board.

The Virginia FFA Advisory Council is a committee made up of sixteen members from all across the Commonwealth that meet bi-yearly. Along with sending their advice on important issues to the National FFA Board of Directors, the Council also discusses the past year's events, how to advance their association in the future, and address the suggestions and concerns brought up by agricultural teachers and other leaders of agriculture.

#### Membership of the Advisory Council

- 1) Ten members of the Virginia FFA Advisory Council are selected by the areas.
- 2) One member, who is agricultural education middle school advisor.
- 3) One member, who is a representative from Virginia Tech.
- 4) One member, who is a representative of Virginia State.
- 5) One member, who is the State FFA Advisor.

- 6) One member, who is a representative of FFA members, selected when elected State FFA President.
- 7) One member, who is the State FFA Specialist (State FFA Executive Secretary.)

#### Term

Members serve a three-year term except for the one FFA member representative who will serve a one-year term.

#### Chair

The chair of the advisory committee on awards and career development events will be elected each year.

#### Meeting Schedule

- 1) Annual fall meeting to report on the completion of activities at convention and provide input into the winter meeting agenda.
- 2) The annual spring meeting will allow for most of the committee's work to be conducted as a whole group and in sub-groups focused on specific issues or specific types of activities (e.g. team career development events, individual awards, chapter awards).

Local advisors should submit concerns suggestions to the state FFA Specialist/chair of the advisory board and their area representative at least two weeks in advance of the meeting.

#### **Rules Committee on State Career Development Events**

The advisory committee will meet only when needed and will make all final decisions on interpretation of the rules and regulations of the State FFA Career Development Events or awards programs.

Official judges' decisions are final. The announced results are the official results and awards may be duplicated as a result of the appeal.

#### **Conflict of Interest**

If there is a violation of a student whose advisor is a member of the advisory board, the advisor may not vote on the violation. A teacher from that area maybe used to fill in for the advisor whose student has possible committed the violation.

## Official Dress Recommendations, Number of Participants, and Number of Scores from Team Total

Event	Official Dress Appropriate	Number of Participants	Number of Scores Allowed (per team) for Team Total
Agricultural Communications	Yes	5	5
Agricultural Issues Forum	Yes	3-7	Team Score Event
Agricultural Mechanics Sr.	FFA Shirt	4	Top 3 Scores
Agricultural Mechanics Jr.	FFA Shirt	3	3
Agricultural Sales	Yes	4	4
Crops Judging	*Yes/FFA Shirt	4	3
Computer Applications	Yes	1	1
Creed Speaking	Yes	1	Individual Event
Dairy Cattle Evaluation	*Yes	4	Top 3 Scores
Dairy Cattle Handlers' Activity	White/Jacket	1	Individual Event
Dairy Foods	Yes	4	Top 3 Scores
Envirothon	*Yes/FFA Shirt	4	4
Extemporaneous Public Speaking	Yes	1	Individual Event
Farm Business Management	Yes	4	Top 3 Scores
Floriculture	*Yes/FFA Shirt	4	4
Food Science and Technology	Yes	4	4
Forestry Field Day	FFA Shirt	7	7
Forestry Senior	FFA Shirt	4	Top 3 Scores
Forestry Junior	FFA Shirt	4	3
Horse Evaluation	*Yes	4	Top 3 Scores
Horse Hippology	Yes	4	Top 3 Scores
Horticulture Demonstration	FFA Shirt	1/2	1/2
Job Interview	Yes	1	Individual Event
Jr. Dairyman's	FFA Shirt	4	Top 3 Scores
Jr. Forester's	FFA Shirt	4	Top 3 Scores
Jr. Stockman's	FFA Shirt	4	Top 3 Scores
Livestock Evaluation	*Yes	4	Top 3 Scores
Marketing Plan	Yes	3	Team Score Event
Meats Evaluation & Technology	FFA Shirt	4	Top 3 Scores
Middle School Agriscience Technology	FFA Shirt	4	3
Middle School FFA Quiz Bowl	Yes	4	4
Middle School Food & Fiber	FFA Shirt	4	3
Middle School Plant Science	FFA Shirt	4	3
Middle School Small Animal Care	FFA Shirt	4	3
Nursery/Landscape	FFA Shirt	4	Top 3 Scores
Parliamentary Procedure Senior	Yes	6	Team Score Event
Parliamentary Procedure Junior	Yes	6	Team Score Event
Poultry Evaluation	FFA Shirt	4	Top 3 Scores
Prepared Public Speaking Senior	Yes	1	Individual Event
Prepared Public Speaking Junior	Yes	1	1
Small Engines	FFA Shirt	1	1
Soils Judging	FFA Shirt	4	Top 3 Scores
Tractor Operator's	FFA Shirt	1	1
Tractor Troubleshooting	FFA Shirt	2	2

Please remember that all participants are required to wear complete official dress, as outlined in the National FFA Official Manual, to all award functions.

**\*Official Dress is required for the reasons part of this CDE**

**-An FFA Shirt is any shirt purchased from the National, State or Local FFA or any plain shirt that has an FFA emblem or FFA sticker on it.**

# LIVESTOCK EVALUATION

## I. OBJECTIVES

1. To understand and to interpret the value of performance data based on industry standards.
2. To measure the students' knowledge in the following categories:
  - a. To make accurate observations of livestock
  - b. To determine the desirable traits in animals
  - c. To make logical decisions based on these observations
  - d. To discuss and to defend their decisions for their placing
  - e. To instill an appreciation for desirable selection, management and marketing techniques
3. To develop the ability to select and market livestock that will satisfy consumer demands and provide increased economic returns to producers. Provide positive economic returns to producers as well as meet the needs of the industry.
4. To become proficient in communicating the terminology of the industry and the consumer.
5. To identify the criteria used in grading livestock. Scenarios will be used in the selection process.
6. To provide an opportunity for participants to become acquainted with professionals in the industry.

## II. EVENT RULES

1. **Team Make-up**- Teams may consist of three or four members. Team ranking is determined by combining the scores of the top three students from each team. Teams that for whatever reasons have fewer than three members are not eligible for team awards, but students may receive individual awards.
2. Participants will report to the event official for instructions at the time and place listed in the state convention program.
3. Data may be added or deleted as technology changes. When new criteria are adopted, the information will be forwarded to all advisors before state convention.

## III. EVENT FORMAT

### A. EQUIPMENT

**Materials students must provide**- Participants must bring two (No. 2) pencils.

**Equipment provided**- Participants are not to bring any paper or clipboards. All paper and support boards will be provided.

### B. TEAM ACTIVITY *(50 points/class 150 points total)*

**Keep/cull classes**- There will be three female selection classes, one each in beef, sheep and hogs, made up of eight animals. Participants will be required to select the four best animals from the eight, using visual appraisal and performance data. Performance data will be provided. All three of the female selection classes will make up the cooperative team activity.

Performance Records (including EPD's) may be used in the breeding and the keep/cull classes of beef, sheep, and swine. Performance criteria, when used, shall be based on standards developed and used by the Beef Improvement Federation, the Sheep Industry Development Program, Inc., and the National Swine Improvement Federation. Participants will be allowed 15 minutes for each keep/cull class.

### C. INDIVIDUAL ACTIVITIES

1. **Livestock classes-** Six classes of livestock of four animals each will be placed using a computerized scorecard. There will be one class each of breeding and market beef, sheep, and swine. Participants will be allowed 15 minutes for each class. (50 points/class 300 points total)
2. **Oral reasons-** Three sets of oral reasons will be designated by the event superintendent at the beginning of the event. Reasons will be given after all classes have been placed. Notes will not be permitted; however, participants may use a card with only their placing of the class written on it. (50 points/class – 300 points total)
3. **Beef slaughter class-** One class of 5 slaughter cattle will be graded individually, according to the latest U.S.D.A. market grades. Forms will be provided in the coaches' packets that are distributed annually prior to the event. The slaughter class will also be graded according to cutability. (50 points)
4. **Production Data Class-** One class of breeding beef, sheep or swine (4 animals) will be evaluated. Production data will be provided for each animal and will be utilized in the final placing of the class. This class will also be one of the four oral reasons classes. Participants are expected to utilize the production data information provided as part of their oral reasons.
5. **Written test-** A multiple choice exam will be given. The objective exam is designed to determine team members understanding of the livestock industry. The exam will consist of 50 multiple choice questions. Sixty minutes will be given for the exam. (50 points) Written test subject will cycle through swine, beef, and sheep. (One year the test will be on swine, the next beef, next sheep and then return to swine, etc.)

### IV. Scoring

	Possible Points	
	Individual	Team
<b>Selection Classes</b>		
<b>Beef</b>		
Placings (2)	100	300
Oral Reasons (1)	50	150
<b>Sheep</b>		
Placings (2)	100	300
Oral Reasons (1)	50	150
<b>Swine</b>		
Placings (2)	100	300
Oral Reasons (1)	50	150
<b>Beef Slaughter Class</b>	50	150
<b>Production Data Class</b>	50	150
<b>Production Data Oral Reasons</b>	50	150
<b>Written Test</b>	50	150
<b>Team Activity (Keep/Cull)</b>		150
<b>Total Score</b>	700	2100

## V. TEST TOPIC

The test topic(s) will be as follows:

Year	Test Topic
2009	Swine
2010	Beef
2011	Sheep
2012	Swine

## VI. TIEBREAKERS

If ties occur, the following events will be used in order to determine award recipients:

1. Total of oral reasons
2. Total of placings classes
3. Total of grading classes

## VII. AWARDS

Awards will be presented during session at state convention. Awards are presented to teams as well as individuals based upon their rankings. The individual and the team scoring the highest in each species of livestock and oral reasons shall receive a plaque.

## VIII. REFERENCES

This list of references is not intended to be inclusive. Other sources may be utilized and teachers are encouraged to make use of the very best instructional materials available. The following list contains references that may prove helpful during event preparation.

- For the most current copies of U.S.D.A. market standards and posters (large and small) illustrating market grades, write:

Agricultural Marketing Service, U.S.D.A.  
Livestock Seed Event-Standard and Review Branch  
Room 2641 South Building  
Washington, DC 20250

- For the most current copies of performance criteria standards write:

Beef Improvement Federation  
Department of Animal Sciences and Food  
Kansas State University  
Northwest Research Extension Center  
105 Experiment Farm Road  
Colby, KS 67701

National Swine Improvement Federation  
204 Polk Hall  
North Carolina State University  
Raleigh, NC 27695-7621

Gillispie, James R. *Modern Livestock and Poultry Production*. 7th Edition. Albany, NY: Delmar Publishers, Inc. 2004.

Hunsley, R. *Livestock Judging, Selection and Evaluation*. 5<sup>th</sup> Edition. Danville, IL: Interstate Publishers, 2001.

Agriscience 332 – Animal Science (8831B). Instructional Materials Service, Texas A & M University 2588 TAMUS, College Station, TX 77843-2588 (979)845-6601

Agriscience 231 – Plant and Animal Production (8651B). Instructional Materials Service, Texas A & M University, 2588 TAMUS, College Station, TX 77843-2588 (979) 845-6601

**VII. EXAMPLE**

<b>KEEP/CULL CLASS SAMPLE CARD</b>	
Beef/Sheep/Swine	
Participant/Team Name _____	Participant/Team No. _____
Circle or list the numbers of the 4 animals you want to keep as replacements.	
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8	
Event officials will assign a point value to each one of the individual animals, giving the most points to the most desirable animal and the least points to the least desirable animal. If the participant selects the best four animals, full credit will be given.	

**OFFICIAL PLACING- KEEP/CULL**

8	7	6	5	4	3	2	1	Class
18	13	11	8	7	4	3	0	Points

**KEEP/CULL CLASS SCORES**

Participant									Score
A	<b>6</b>	<i>11</i>	<b>3</b>	<i>4</i>	<b>4</b>	<i>7</i>	<b>2</b>	<i>3</i>	<b>25</b>
B	<b>8</b>	<i>18</i>	<b>7</b>	<i>13</i>	<b>6</b>	<i>11</i>	<b>5</b>	<i>8</i>	<b>50</b>
C	<b>7</b>	<i>13</i>	<b>6</b>	<i>11</i>	<b>5</b>	<i>8</i>	<b>1</b>	<i>0</i>	<b>32</b>

Animals are shown in bold and point values are shown in italics. Point values are established by official judges and will differ with each class.

# Keep/Cull Team Activity Scorecard

Name: \_\_\_\_\_ Chapter: \_\_\_\_\_

State: \_\_\_\_\_ Team No.: \_\_\_\_\_

Member No.: \_\_\_\_\_

## Keep/Cull Team Activity

BEEF/SHEEP/SWINE – (SELECT ONLY ONE SPECIES)

Circle or list the numbers of the four animals you want to keep as replacements.

**1 – 2 – 3 – 4 – 5 – 6 – 7 – 8 – 9 – 10**

Event officials will assign a point value to each of the individual animals, giving the most points to the most desirable animal and the least points to the least desirable animal. If the participant selects the best four animals, full credit will be given.

### Example of Official Placing – Keep/Cull

	8	7	6	5	4	3	2	1	Class
	18	13	11	8	7	4	3	0	Points
Participant									Score
A	6	11	3	4	4	7	2	3	25
B	8	18	7	13	6	11	5	8	50
C	7	13	6	11	5	8	1	0	32

Animals selected are shown in regular font with points value for that particular animal shown in bold font. Points values are established by official judges and will differ with each class.

\_\_\_\_\_  
Judge's Name

\_\_\_\_\_  
Judge's Signature

\_\_\_\_\_  
Date

## LIVESTOCK EVALUATION CAREER DEVELOPMENT EVENT

### What is it?

This CDE helps you learn to evaluate beef cattle, sheep, and swine and defend your decisions. At the competition, participants complete a written exam and cooperatively determine keep/cull classes for market and breeding usage, based on physical characteristics and records. They also give oral reasons explaining their placing of various classes.

### Career Opportunities

#### *Career Clusters:*

- Agricultural and Forestry Production
- Management and Financial Specialties
- Marketing, Merchandising and Sales
- Science and Engineering
- Education and Communication

#### *Career opportunities found in the career cluster areas:*

- **Agricultural and Forestry Production** – animal breeder, cattle rancher, farm manager, livestock producer, feed ration developer and analyst, animal health products distributor, field sales representative-animals and feed products
- **Management and Financial Specialties** – export sales manager, agricultural extension specialist
- **Marketing, Merchandising and Sales** – livestock buyer, USDA meat inspector, livestock yard supervisor
- **Science and Engineering** – animal nutritionist, animal geneticist
- **Education and Communication** – editor/writer for livestock publication, farm broadcaster, postsecondary teacher, veterinarian

### Educational Requirements

**Bachelor Degree** – animal breeder, cattle rancher, farm manager, livestock producer, animal health products distributor, field sales representative-animals and feed products, livestock buyer, editor/writer for livestock publication, farm broadcaster, livestock yard supervisor, export sales manager

**Graduate Degree** – USDA meat inspector, agricultural extension specialist, feed ration developer and analyst, animal nutritionist, animal geneticist, postsecondary teacher, veterinarian

### SAE Opportunities

Producing and marketing swine, produce and market lambs, sheep, or wool, produce and market beef, job placement at a feedlot or ranch, learning artificial insemination techniques and becoming a certified technician

### Proficiency Award Areas

Beef Production  
Sheep Production  
Swine Production  
Diversified Livestock Production

### Curriculum Resources

- *Modern Livestock and Poultry Production*. 5<sup>th</sup> Edition 1995. Delmar Publishers, Inc. Albany, NY.
- *Animal Science Biology and Technology*. 1996. Interstate Publishers, Danville, IL.
- *Introduction to Livestock and Poultry Production Science and Technology*. 1996. Interstate Publishers., Danville, IL.
- *The Science of Animal Agriculture*. 1<sup>st</sup> Edition 1994. Delmar Publishers, Inc., Albany, NY.
- *Livestock Judging, Selection, and Evaluation*. 3<sup>rd</sup> Edition 1988. Interstate Publishers., Danville, IL.
- Agriscience 332 – Animal Science (8831B). Instructional Materials Service, Texas A & M University Mail Stop 2588, College Station TX 77843-2588
- Agriscience 336 – Advanced Animal Science (8846B). Instructional Materials Service, Texas A & M University Mail Stop 2588, College Station TX 77843-2588